

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL			5. MINERAL LEASE NO: STUO-08512-ST	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>			8. UNIT or CA AGREEMENT NAME: UNIT #891008900A	
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE L.P.			9. WELL NAME and NUMBER: NBU 1022-1301CS	
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078			PHONE NUMBER: (435) 781-7024	
10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E	
4. LOCATION OF WELL (FOOTAGES) 637402X 4422845Y 39.946466 -109.390948 AT SURFACE: 1747'FSL, 1705'FWL AT PROPOSED PRODUCING ZONE: 775'FSL, 1920'FEL SW SE 637972X 4422560Y 39.9463818 -109.385045			12. COUNTY: UINTAH	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 27.7 MILES SOUTH OF OURAY, UTAH			13. STATE: UTAH	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 1705'		16. NUMBER OF ACRES IN LEASE: 600.00		17. NUMBER OF ACRES ASSIGNED TO THIS WELL:
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) REFER TO TOPO C		19. PROPOSED DEPTH: 8,130		20. BOND DESCRIPTION: BLD00000237 22013542
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5292'GL		22. APPROXIMATE DATE WORK WILL START:		23. ESTIMATED DURATION:

24. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12 1/4"	9 5/8	32.3#	H-40	2,100 265 SX CLASS G 1.18 YIELD 15.6 PPG
7 7/8"	4 1/2	11.6#	I-80	8,130 1310 SX 50/50 POZ 1.31 YIELD 14.3 PPG

25. ATTACHMENTS	
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:	
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE *[Signature]* DATE 7/31/2007

(This space for State use only)

API NUMBER ASSIGNED: 43-047-39476
Approved by the Utah Division of Oil, Gas and Mining

(11/2001)

Date: 09-04-07
By: *[Signature]*

RECEIVED
AUG 06 2007
DIV. OF OIL, GAS & MINING

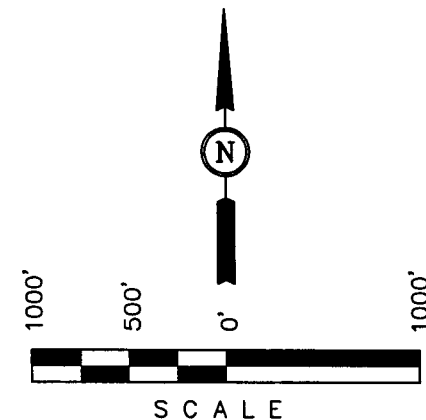
T10S, R22E, S.L.B.&M.

Kerr-McGee Oil & Gas Onshore LP

Well location, NBU #1022-1301CS, located as shown in the NE 1/4 SW 1/4 of Section 13, T10S, R22E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 101719
STATE OF UTAH

UNTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 5-17-07	DATE DRAWN: 6-13-07
PARTY D.K. L.K. K.G.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE Kerr-McGee Oil & Gas Onshore LP	

N89°52'46"W - 5313.33' (Meas.)

Marked Stone,
(Not Set), Pile
of Stones

1991 Alum. Cap,
1.3' High, Pile of
Stones, Steel Post

W.C.
1991 Alum. Cap, 0.2' High,
Pile of Stones (True
Position N00°01'W 118.14'
and West 858.00' G.L.O.)

True Position
N82°09'38"W
866.13'

13

1995 Alum. Cap,
Pile of Stones,
Steel Post

NBU #1022-1301CS
Elev. Ungraded Ground = 5294'

1705'

S59°04'24"E
1888.67'

1920'

BOTTOM
HOLE

1991 Alum. Cap,
0.4' High, Pile
of Stones, Steel
Post

N00°00'53"W - 2649.61' (Meas.)

S00°01'05"E - 2641.06' (Meas.)

R
22
E

R
23
E

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(NAD 83)
LATITUDE = 39°56'47.20" (39.946444)
LONGITUDE = 109°23'29.45" (109.391514)
(NAD 27)
LATITUDE = 39°56'47.32" (39.946478)
LONGITUDE = 109°23'27.00" (109.390833)

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

W 1/4 Cor. Sec. 24,
1991 Alum. Cap, 0.3'
High, Pile of Stones

N00°20'00"W -
2501.73' (Meas.)

True
Position
132.00'
(G.L.O.)

W.C.
1991 Alum. Cap,
0.4' High, Steel
Post

N89°58'46"W - 2626.88' (Meas.)

S89°54'34"W - 2675.19' (Meas.)

1991 Alum. Cap,
0.5' High, Pile of
Stones

1747'

775'

1920'

**NBU 1022-13O1CS
NE/SW SEC. 13, T10S, R22E
UINTAH COUNTY, UTAH
UTSTUO-08512-ST**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers:

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	921'
Top of Birds Nest Water	1237'
Mahogany	1602'
Wasatch	3963'
Mesaverde	6186'
MVU2	7018'
MVL1	7586'
TD	8130'

2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Water	Green River	921'
	Top of Birds Nest Water	1237'
	Mahogany	1602'
Gas	Wasatch	3963'
Gas	Mesaverde	6186'
Gas	MVU2	7018'
Gas	MVL1	7586'
Water	N/A	
Other Minerals	N/A	

3. Pressure Control Equipment (Schematic Attached)

Please refer to the attached Drilling Program.

4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program.

5. Drilling Fluids Program:

Please refer to the attached Drilling Program.

The operator will use fresh water mud with 0-8% Bio Diesel.

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 8130' TD, approximately equals 5041 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3252 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please refer to the attached Drilling Program.

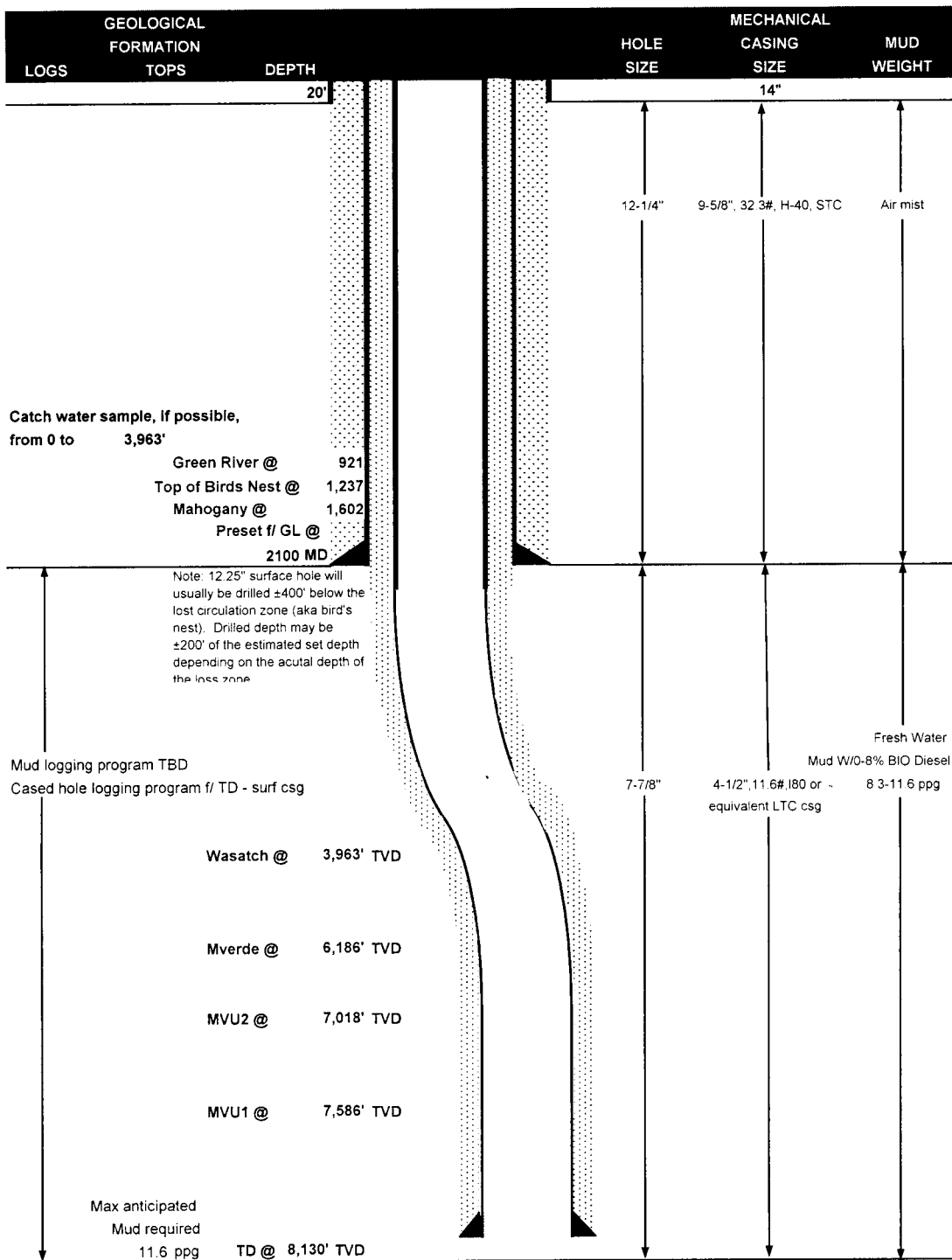
10. **Other Information:**

Please refer to the attached Drilling Program.

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	August 1, 2007	
WELL NAME	NBU 1022-1301CS	TD	8,130'	TVD
FIELD	Natural Buttes	COUNTY	Uintah	STATE
		Utah		
ELEVATION	5,293' GL	KB	5,308'	
SURFACE LOCATION	NE/SW SEC. 13, T10S, R22E 1747'FSL, 1705'FWL			
	Latitude:	39.946444	Longitude:	109.391514
BTM HOLE LOCATION	NE/SW/SE SEC. 13, T10S, R22E 775'FSL, 1920'FEL			
OBJECTIVE ZONE(S)	Wasatch/Mesaverde			
ADDITIONAL INFO	Regulatory Agencies: UDOGM (MINERALS AND SURFACE), BLM, Tri-County Health Dept.			





KERR-McGEE OIL & GAS ONSHORE LP **DRILLING PROGRAM**

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				2270	1370	254000
SURFACE	9-5/8"	0 to 2100	32.30	H-40	STC	0.73*****	1.39	4.28
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 8130	11.60	I-80	LTC	2.50	1.29	2.44

- 1) Max Anticipated Surf. Press (MASP) (Surface Casing) = (Pore Pressure at next csg point - (0.22 psi/ft - partial evac gradient x TVD of next csg point))
- 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft - partial evac gradient x TD)
- (Burst Assumptions: TD = 0.0 ppg) .22 psi/ft = gradient for partially evac wellbore
- (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing * Buoy. Fact. of water)
- MASP 3115 psi

***** Burst SF is low but csg is much stronger than formation at 2000'. EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ .25 pps flocele				
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt	50		15.60	1.18
			+ 2% CaCl + .25 pps flocele				
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	1500	65/35 Poz + 6% Gel + 10 pps gilsonite	360	35%	12.60	1.81
			+ 25 pps Flocele + 3% salt BWOW				
	TAIL	500	Premium cmt + 2% CaCl	180	35%	15.60	1.18
			+ .25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	5,680'	Premium Lite II + 3% KCl + 0.25 pps	620	60%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	2,450'	50/50 Poz/G + 10% salt + 2% gel	690	60%	14.30	1.31
			+ .1% R-3				

*Substitute caliper hole volume plus 15% excess if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Brad Laney

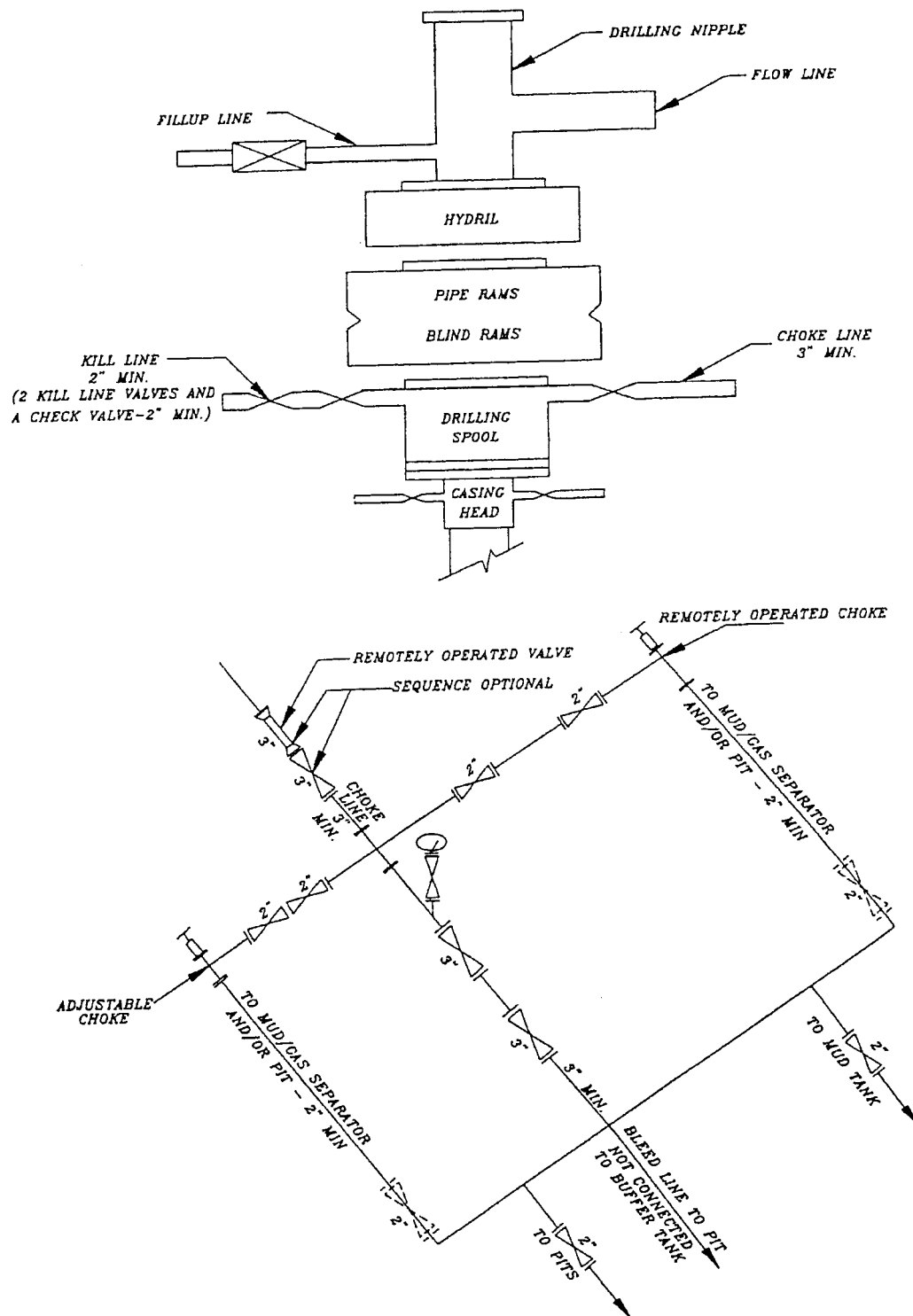
DATE:

DRILLING SUPERINTENDENT:

Randy Bayne

DATE:

5M BOP STACK and CHOKE MANIFOLD SYSTEM



**NBU 1022-13O1CS
NE/SW SEC. 13, T10S, R22E
Uintah County, UT
UTSTUO-08512-ST**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

Refer to Topo Maps A and B for location of access roads within a 2 mile radius.

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. Planned Access Roads:

The operator will utilize an existing access road. Refer to Topo Map B for the location of the existing access road.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

3. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

The following guidelines will apply if the well is productive.

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain

fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Carlsbad Canyon, standard color number 2.5Y 6/2.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

A 30' rights of way will be required for approximately 12,184' +/- of 6" steel pipeline is proposed. The pipeline shall run from the location into Section 18, T10S, R23E (Lease #UTU-38421) and travel north into Sec. 7, T10S, R23E (Lease #UTU-49226) to tie-in to and existing pipeline. Refer to the attached Topo Map D for pipeline placement.

A 30' rights of way will be required for approximately 12,184' +/- of 10" steel pipeline is proposed. The pipeline shall run from the location into Section 18, T10S, R23E (Lease #UTU-38421) and travel north into Sec. 7, T10S, R23E (Lease #UTU-49226) to tie-in to and existing pipeline. Refer to the attached Topo Map D for pipeline placement.

5. Location and Type of Water Supply:

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. Source of Construction Materials:

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

Due to difficult topography and proximity to the White River, the reserve pit will be constructed utilizing a double liner and felt. The liner will be approximately 60 mil in thickness versus our standard 20 mil and the reserve pit will also have a leak detection system installed between the liners.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and will then be hauled By truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E.

8. Ancillary Facilities:

None are anticipated.

9. Well Site Layout: (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Form 9 shall be submitted.

10. Plans for Reclamation of the Surface:

Producing Location:

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

Dry Hole/Abandoned Location:

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

11. Surface Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

12. Other Information:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey will be submitted when report becomes available.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.

13. Lessee's or Operators's Representative & Certification:

Sheila Upchego
Senior Land Admin Specialist
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East.
Vernal, UT 84078
(435) 781-7024

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435)781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by State Surety Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.



Sheila Upchego

7/31/2007

Date



Weatherford[®]

Drilling Services

Proposal



ANADARKO - KERR McGEE

NBU #1022-1301CS

UINTAH COUNTY, UTAH

WELL FILE: PLAN 1

DATE: JULY 12, 2007

Weatherford International, Ltd.

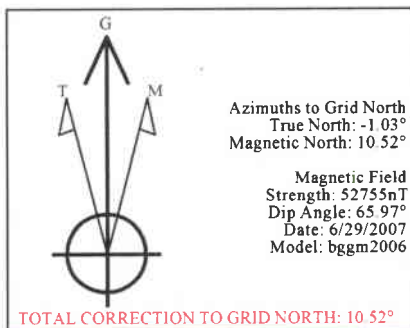
15710 John F. Kennedy Blvd

Houston, Texas 77032 USA

+1.281.260.1300 Main

+1.281.260.4730 Fax

www.weatherford.com



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	118.79	0.00	0.00	0.00	0.00	0.00	0.00	
2	2160.00	0.00	118.79	2160.00	0.00	0.00	0.00	0.00	0.00	
3	3360.00	30.00	118.79	3305.92	-147.88	269.09	2.50	118.79	307.05	
4	5581.38	30.00	118.79	5229.69	-682.80	1242.48	0.00	0.00	1417.74	
5	7581.38	0.00	118.79	7139.55	-929.26	1690.97	1.50	180.00	1929.48	
6	8571.83	0.00	118.79	8130.00	-929.26	1690.97	0.00	0.00	1929.48	PBHL

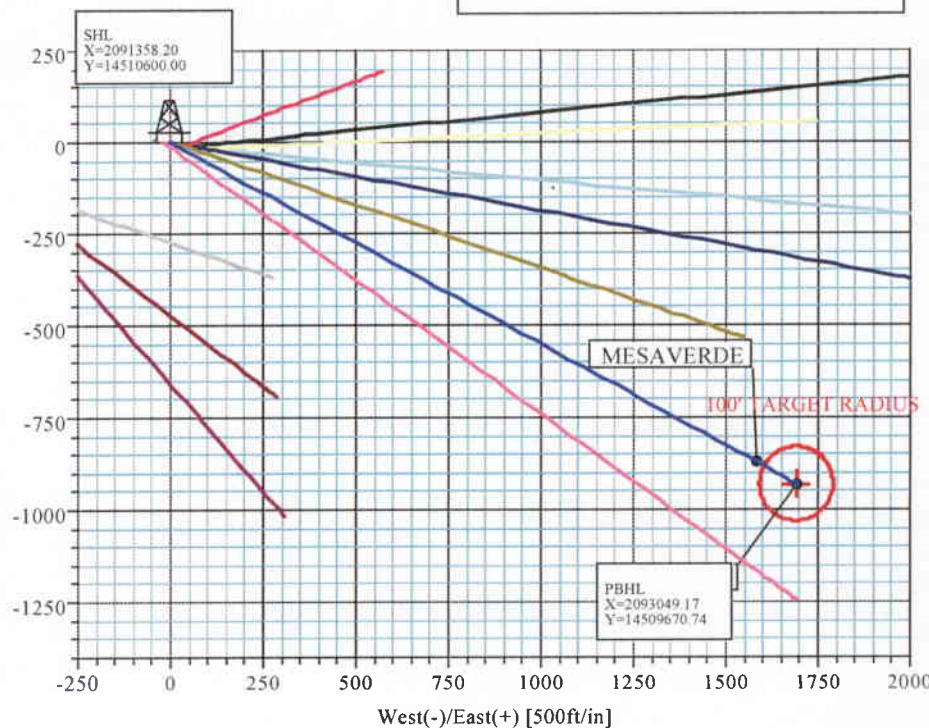
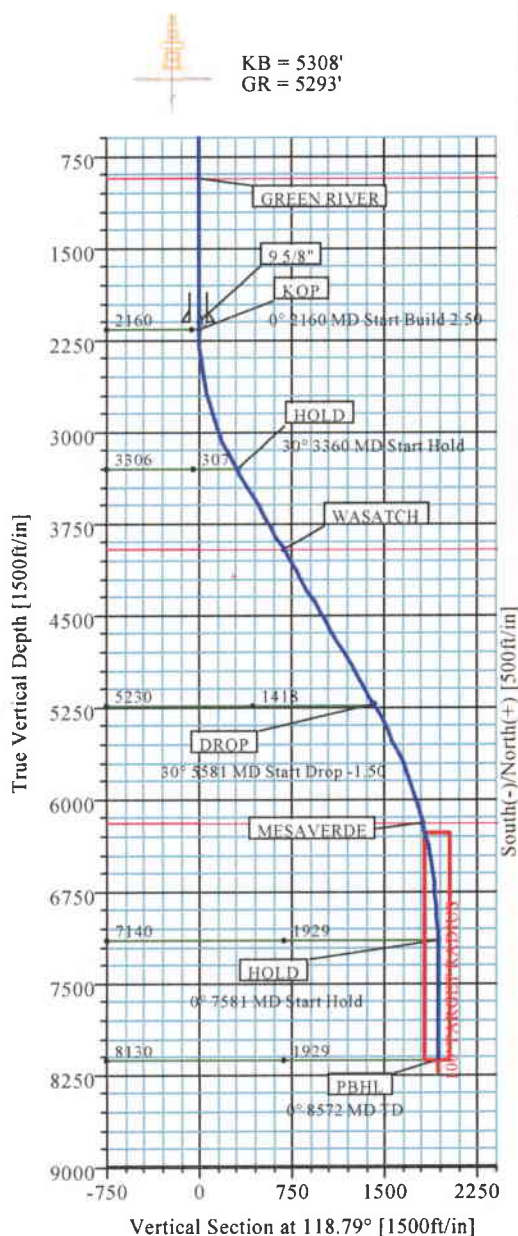
WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Well #1301CS	0.00	0.00	14510600.00	2091358.20	39°56'47.113N	109°23'28.047W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8130.00	-929.26	1690.97	14509670.74	2093049.17	Circle (Radius: 100)

FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	921.00	921.00	GREEN RIVER
2	3963.00	4118.74	WASATCH
3	6186.00	6617.64	MESAVERDE

FIELD DETAILS	
UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	
Geodetic System:	Universal Transverse Mercator (USfeet)
Ellipsoid:	NAD27 (Clarke 1866)
Zone:	UTM Zone 12, North 114W to 108W
Magnetic Model:	bggm2006
System Datum:	Mean Sea Level
Local North:	Grid North

CASING DETAILS				
No.	TVD	MD	Name	Size
1	2100.00	2100.00	9 5/8"	9.62



Weatherford Drilling Services

Anticollision Report



Weatherford

Company:	Anadarko-Kerr-McGee	Date:	7/13/2007	Time:	08:47:56	Page:	1
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	Co-ordinate(NE) Reference:	Site: NBU 1022-1301CS, Grid North				
Reference Site:	NBU 1022-1301CS	Vertical (TVD) Reference:	SITE 5308.0				
Reference Well:	Well #1301CS	Db: Sybase					
Reference Wellpath:	1						

NO GLOBAL SCAN: Using user defined selection & scan criteria		Reference:	Plan: Plan #1
Interpolation Method:	MD	Error Model:	ISCWSA Ellipse
Depth Range:	0.00 to 8571.83 ft	Scan Method:	Closest Approach 3D
Maximum Radius:	10000.00 ft	Error Surface:	Ellipse

Plan: Plan #1	Date Composed:	6/29/2007
Principal: Yes	Version:	1
	Tied-to:	From Surface

Summary								
←-----	Offset Wellpath -----→		Reference	Offset	Ctr-Ctr	Edge	Separation	Warning
Site	Well	Wellpath	MD ft	MD ft	Distance ft	Distance ft	Factor	
NBU #1022-1304S	NBU 1022-1304S	1 V0 Plan: Plan #3 V1	2300.00	2300.84	20.24	10.85	2.16	

Site: NBU #1022-1304S
Well: NBU 1022-1304S
Wellpath: 1 V0 Plan: Plan #3 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	277.75	2.60	-19.10	19.28			No Data
100.00	100.00	100.00	100.00	0.09	0.09	277.75	2.60	-19.10	19.28	19.10	108.28	
200.00	200.00	200.00	200.00	0.30	0.30	277.75	2.60	-19.10	19.28	18.68	32.29	
300.00	300.00	300.00	300.00	0.51	0.51	277.75	2.60	-19.10	19.28	18.26	18.98	
400.00	400.00	400.00	400.00	0.72	0.72	277.75	2.60	-19.10	19.28	17.84	13.44	
500.00	500.00	500.00	500.00	0.93	0.93	277.75	2.60	-19.10	19.28	17.42	10.40	
600.00	600.00	600.00	600.00	1.14	1.14	277.75	2.60	-19.10	19.28	17.00	8.48	
700.00	700.00	700.00	700.00	1.35	1.35	277.75	2.60	-19.10	19.28	16.58	7.16	
800.00	800.00	800.00	800.00	1.56	1.56	277.75	2.60	-19.10	19.28	16.17	6.20	
900.00	900.00	900.00	900.00	1.76	1.76	277.75	2.60	-19.10	19.28	15.75	5.46	
1000.00	1000.00	1000.00	1000.00	1.97	1.97	277.75	2.60	-19.10	19.28	15.33	4.88	
1100.00	1100.00	1100.00	1100.00	2.18	2.18	277.75	2.60	-19.10	19.28	14.91	4.41	
1200.00	1200.00	1200.00	1200.00	2.39	2.39	277.75	2.60	-19.10	19.28	14.49	4.03	
1300.00	1300.00	1300.00	1300.00	2.60	2.60	277.75	2.60	-19.10	19.28	14.07	3.70	
1400.00	1400.00	1400.00	1400.00	2.81	2.81	277.75	2.60	-19.10	19.28	13.65	3.43	
1500.00	1500.00	1500.00	1500.00	3.02	3.02	277.75	2.60	-19.10	19.28	13.23	3.19	
1600.00	1600.00	1600.00	1600.00	3.23	3.23	277.75	2.60	-19.10	19.28	12.81	2.98	
1700.00	1700.00	1700.00	1700.00	3.44	3.44	277.75	2.60	-19.10	19.28	12.40	2.80	
1800.00	1800.00	1800.00	1800.00	3.65	3.65	277.75	2.60	-19.10	19.28	11.98	2.64	
1900.00	1900.00	1900.00	1900.00	3.86	3.86	277.75	2.60	-19.10	19.28	11.56	2.50	
2000.00	2000.00	2000.00	2000.00	4.07	4.07	277.75	2.60	-19.10	19.28	11.14	2.37	
2100.00	2100.00	2100.00	2100.00	4.28	4.28	277.75	2.60	-19.10	19.28	10.72	2.25	
2200.00	2200.00	2200.24	2200.24	4.49	4.49	158.94	2.43	-18.87	19.35	10.38	2.16	
2300.00	2299.91	2300.84	2300.79	4.70	4.70	158.68	0.56	-16.30	20.24	10.85	2.16	
2400.00	2399.56	2401.47	2401.19	4.91	4.91	158.19	-3.39	-10.88	22.10	12.32	2.26	
2500.00	2498.75	2502.15	2501.34	5.14	5.13	157.59	-9.42	-2.60	24.95	14.77	2.45	
2600.00	2597.30	2602.89	2601.13	5.38	5.37	156.96	-17.52	8.52	28.78	18.20	2.72	
2700.00	2695.02	2703.72	2700.46	5.66	5.62	156.37	-27.69	22.48	33.58	22.60	3.06	
2800.00	2791.71	2804.65	2799.22	5.98	5.91	155.84	-39.93	39.28	39.35	27.97	3.46	
2900.00	2887.21	2905.71	2897.31	6.36	6.23	155.39	-54.22	58.91	46.10	34.27	3.90	
3000.00	2981.32	3006.91	2994.62	6.80	6.60	154.99	-70.57	81.35	53.80	41.51	4.38	
3100.00	3073.87	3108.27	3091.05	7.33	7.03	154.65	-88.97	106.60	62.45	49.65	4.88	
3200.00	3164.67	3209.82	3186.48	7.94	7.52	154.35	-109.40	134.65	72.05	58.69	5.39	
3300.00	3253.57	3311.58	3280.82	8.64	8.08	154.09	-131.85	165.48	82.57	68.59	5.90	
3400.00	3340.56	3413.61	3373.98	9.44	8.71	153.82	-156.33	199.09	93.71	78.98	6.36	
3500.00	3427.16	3516.14	3466.06	10.29	9.43	152.74	-182.89	235.54	102.57	86.91	6.55	

Weatherford Drilling Services

Anticollision Report



Weatherford

Company:	Anadarko-Kerr-McGee	Date: 7/13/2007	Time: 08:47:56	Page: 2
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)			
Reference Site:	NBU 1022-13O1CS	Co-ordinate(NE) Reference:	Site: NBU 1022-13O1CS, Grid North	
Reference Well:	Well #13O1CS	Vertical (TVD) Reference:	SITE 5308.0	
Reference Wellpath: 1				Db: Sybase

Site: NBU #1022-13O4S
Well: NBU 1022-13O4S
Wellpath: 1 V0 Plan: Plan #3 V1

Inter-Site Error: 0.00 ft

Reference MD ft	Reference TVD ft	Offset MD ft	Offset TVD ft	Semi-Major Axis Ref ft	Semi-Major Axis Offset ft	TFO-HS deg	Offset Location North ft	Offset Location East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
3600.00	3513.76	3619.02	3556.76	11.17	10.22	150.74	-211.47	274.77	108.53	91.72	6.45	
3700.00	3600.36	3720.08	3644.43	12.08	11.08	148.06	-241.07	315.41	112.29	94.12	6.18	
3800.00	3686.97	3819.88	3730.86	13.00	11.95	145.50	-270.45	355.74	116.06	96.35	5.89	
3900.00	3773.57	3919.68	3817.28	13.94	12.85	143.11	-299.83	396.08	120.05	98.70	5.62	
4000.00	3860.17	4019.48	3903.71	14.89	13.76	140.87	-329.21	436.41	124.23	101.15	5.38	
4100.00	3946.77	4119.28	3990.14	15.86	14.69	138.78	-358.59	476.74	128.59	103.71	5.17	
4200.00	4033.38	4219.07	4076.57	16.83	15.64	136.83	-387.97	517.08	133.11	106.36	4.98	
4300.00	4119.98	4318.87	4163.00	17.81	16.59	135.01	-417.35	557.41	137.78	109.11	4.81	
4400.00	4206.58	4418.67	4249.42	18.79	17.55	133.30	-446.73	597.74	142.57	111.95	4.66	
4500.00	4293.18	4518.47	4335.85	19.78	18.52	131.72	-476.11	638.07	147.48	114.87	4.52	
4600.00	4379.79	4618.27	4422.28	20.78	19.49	130.23	-505.49	678.41	152.50	117.86	4.40	
4700.00	4466.39	4718.07	4508.71	21.77	20.47	128.84	-534.87	718.74	157.61	120.93	4.30	
4800.00	4552.99	4817.87	4595.14	22.77	21.45	127.54	-564.25	759.07	162.81	124.07	4.20	
4900.00	4639.59	4917.66	4681.56	23.78	22.44	126.32	-593.63	799.41	168.09	127.28	4.12	
5000.00	4726.20	5017.46	4767.99	24.79	23.43	125.17	-623.01	839.74	173.44	130.54	4.04	
5100.00	4812.80	5117.26	4854.42	25.80	24.42	124.09	-652.39	880.07	178.85	133.86	3.98	
5200.00	4899.40	5217.06	4940.85	26.81	25.41	123.08	-681.77	920.40	184.33	137.24	3.91	
5300.00	4986.00	5316.86	5027.28	27.82	26.41	122.13	-711.15	960.74	189.86	140.66	3.86	
5400.00	5072.61	5416.66	5113.70	28.83	27.41	121.22	-740.53	1001.07	195.44	144.13	3.81	
5500.00	5159.21	5516.45	5200.13	29.85	28.41	120.37	-769.91	1041.40	201.06	147.64	3.76	
5600.00	5245.84	5616.25	5286.56	30.84	29.42	119.57	-799.29	1081.74	206.70	151.19	3.72	
5700.00	5333.32	5716.04	5372.98	31.52	30.42	118.45	-828.67	1122.06	211.55	154.10	3.68	
5800.00	5422.04	5815.75	5459.33	32.18	31.42	116.75	-858.02	1162.36	215.29	155.73	3.61	
5900.00	5511.94	5915.33	5545.56	32.81	32.43	114.48	-887.33	1202.61	218.14	156.32	3.53	
6000.00	5602.96	6014.69	5631.62	33.40	33.43	111.66	-916.59	1242.76	220.35	156.19	3.43	
6100.00	5695.02	6113.67	5717.34	33.95	34.42	108.27	-945.72	1282.76	222.27	155.75	3.34	
6200.00	5788.08	6211.66	5802.94	34.47	35.22	104.74	-973.80	1321.31	224.53	155.97	3.27	
6300.00	5882.07	6310.01	5890.04	34.96	35.85	101.29	-1000.68	1358.20	227.36	157.14	3.24	
6400.00	5976.91	6408.71	5978.62	35.40	36.46	97.92	-1026.31	1393.40	230.72	159.11	3.22	
6500.00	6072.55	6507.78	6068.63	35.80	37.04	94.65	-1050.68	1426.85	234.59	161.84	3.22	
6600.00	6168.93	6607.21	6160.02	36.17	37.58	91.49	-1073.75	1458.52	238.91	165.29	3.25	
6700.00	6265.97	6707.02	6252.74	36.49	38.10	88.43	-1095.49	1488.36	243.65	169.40	3.28	
6800.00	6363.60	6807.20	6346.75	36.78	38.57	85.49	-1115.86	1516.33	248.76	174.13	3.33	
6900.00	6461.77	6907.75	6441.99	37.02	39.01	82.65	-1134.85	1542.39	254.22	179.43	3.40	
7000.00	6560.41	7008.68	6538.40	37.22	39.42	79.92	-1152.42	1566.51	259.96	185.23	3.48	
7100.00	6659.44	7109.99	6635.94	37.39	39.78	77.30	-1168.53	1588.64	265.97	191.49	3.57	
7200.00	6758.80	7211.68	6734.54	37.51	40.11	74.78	-1183.17	1608.74	272.21	198.16	3.68	
7300.00	6858.42	7313.75	6834.14	37.60	40.40	72.36	-1196.31	1626.77	278.63	205.19	3.79	
7400.00	6958.23	7416.20	6934.68	37.64	40.64	70.02	-1207.92	1642.70	285.21	212.53	3.92	
7500.00	7058.17	7519.04	7036.08	37.65	40.85	67.78	-1217.97	1656.50	291.92	220.14	4.07	
7600.00	7158.17	7622.27	7138.30	37.63	41.01	64.40	-1226.43	1668.12	298.71	228.57	5.96	
7700.00	7258.17	7726.08	7241.45	37.67	41.14	61.14	-1233.30	1677.55	304.80	235.19	6.14	
7800.00	7358.17	7830.45	7345.44	37.71	41.22	58.15	-1238.54	1684.75	309.61	240.35	6.29	
7900.00	7458.17	7935.24	7450.05	37.76	41.26	55.24	-1242.12	1689.66	312.97	243.92	6.38	
8000.00	7558.17	8040.28	7555.03	37.80	41.26	52.77	-1244.01	1692.25	314.77	245.80	6.43	
8100.00	7658.17	8143.41	7658.17	37.85	41.24	50.69	-1244.33	1692.69	315.07	245.04	10.49	
8200.00	7758.17	8243.41	7758.17	37.90	41.26	48.69	-1244.33	1692.69	315.07	244.87	10.43	
8300.00	7858.17	8343.41	7858.17	37.94	41.31	46.69	-1244.33	1692.69	315.07	244.64	10.35	
8400.00	7958.17	8443.41	7958.17	37.99	41.35	44.69	-1244.33	1692.69	315.07	244.41	10.28	
8500.00	8058.17	8543.41	8058.17	38.04	41.40	42.69	-1244.33	1692.69	315.07	244.17	10.20	
8571.83	8130.00	8595.24	8110.00	38.08	41.42	40.69	-1244.33	1692.69	315.71	244.66	10.17	

Weatherford Drilling Services

Anticollision Report



Weatherford

Company:	Anadarko-Kerr-McGee	Date:	7/13/2007	Time:	08:47:56	Page:	1
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)						
Reference Site:	NBU 1022-13O1CS	Co-ordinate(NE) Reference:	Site: NBU 1022-13O1CS, Grid North				
Reference Well:	Well #13O1CS	Vertical (TVD) Reference:	SITE 5308.0				
Reference Wellpath:	1					Db:	Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria

Interpolation Method: MD Interval: 100.00 ft

Depth Range: 0.00 to 8571.83 ft

Maximum Radius: 10000.00 ft

Reference: Plan: Plan #1

Error Model: ISCWSA Ellipse

Scan Method: Closest Approach 3D

Error Surface: Ellipse

Plan: Plan #1

Date Composed: 6/29/2007

Version: 1

Principal: Yes

Tied-to: From Surface

Summary

<----- Offset Wellpath ----->	Reference	Offset	Ctr-Ctr	Edge	Separation	Warning
Site	MD	MD	Distance	Distance	Factor	
Well	ft	ft	ft	ft		
NBU #1022-13O4S NBU 1022-13O4S 1 V0 Plan: Plan #3 V1	2300.00	2300.84	20.24	10.85	2.16	

Site: NBU #1022-13O4S

Well: NBU 1022-13O4S

Wellpath: 1 V0 Plan: Plan #3 V1

Inter-Site Error: 0.00 ft

Reference MD	TVD	Offset MD	TVD	Semi-Major Axis Ref	Offset	TFO-HS	Offset Location North	East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
0.00	0.00	0.00	0.00	0.00	0.00	277.75	2.60	-19.10	19.28			No Data
100.00	100.00	100.00	100.00	0.09	0.09	277.75	2.60	-19.10	19.28	19.10	108.28	
200.00	200.00	200.00	200.00	0.30	0.30	277.75	2.60	-19.10	19.28	18.68	32.29	
300.00	300.00	300.00	300.00	0.51	0.51	277.75	2.60	-19.10	19.28	18.26	18.98	
400.00	400.00	400.00	400.00	0.72	0.72	277.75	2.60	-19.10	19.28	17.84	13.44	
500.00	500.00	500.00	500.00	0.93	0.93	277.75	2.60	-19.10	19.28	17.42	10.40	
600.00	600.00	600.00	600.00	1.14	1.14	277.75	2.60	-19.10	19.28	17.00	8.48	
700.00	700.00	700.00	700.00	1.35	1.35	277.75	2.60	-19.10	19.28	16.58	7.16	
800.00	800.00	800.00	800.00	1.56	1.56	277.75	2.60	-19.10	19.28	16.17	6.20	
900.00	900.00	900.00	900.00	1.76	1.76	277.75	2.60	-19.10	19.28	15.75	5.46	
1000.00	1000.00	1000.00	1000.00	1.97	1.97	277.75	2.60	-19.10	19.28	15.33	4.88	
1100.00	1100.00	1100.00	1100.00	2.18	2.18	277.75	2.60	-19.10	19.28	14.91	4.41	
1200.00	1200.00	1200.00	1200.00	2.39	2.39	277.75	2.60	-19.10	19.28	14.49	4.03	
1300.00	1300.00	1300.00	1300.00	2.60	2.60	277.75	2.60	-19.10	19.28	14.07	3.70	
1400.00	1400.00	1400.00	1400.00	2.81	2.81	277.75	2.60	-19.10	19.28	13.65	3.43	
1500.00	1500.00	1500.00	1500.00	3.02	3.02	277.75	2.60	-19.10	19.28	13.23	3.19	
1600.00	1600.00	1600.00	1600.00	3.23	3.23	277.75	2.60	-19.10	19.28	12.81	2.98	
1700.00	1700.00	1700.00	1700.00	3.44	3.44	277.75	2.60	-19.10	19.28	12.40	2.80	
1800.00	1800.00	1800.00	1800.00	3.65	3.65	277.75	2.60	-19.10	19.28	11.98	2.64	
1900.00	1900.00	1900.00	1900.00	3.86	3.86	277.75	2.60	-19.10	19.28	11.56	2.50	
2000.00	2000.00	2000.00	2000.00	4.07	4.07	277.75	2.60	-19.10	19.28	11.14	2.37	
2100.00	2100.00	2100.00	2100.00	4.28	4.28	277.75	2.60	-19.10	19.28	10.72	2.25	
2200.00	2200.00	2200.24	2200.24	4.49	4.49	158.94	2.43	-18.87	19.35	10.38	2.16	
2300.00	2299.91	2300.84	2300.79	4.70	4.70	158.68	0.56	-16.30	20.24	10.85	2.16	
2400.00	2399.56	2401.47	2401.19	4.91	4.91	158.19	-3.39	-10.88	22.10	12.32	2.26	
2500.00	2498.75	2502.15	2501.34	5.14	5.13	157.59	-9.42	-2.60	24.95	14.77	2.45	
2600.00	2597.30	2602.89	2601.13	5.38	5.37	156.96	-17.52	8.52	28.78	18.20	2.72	
2700.00	2695.02	2703.72	2700.46	5.66	5.62	156.37	-27.69	22.48	33.58	22.60	3.06	
2800.00	2791.71	2804.65	2799.22	5.98	5.91	155.84	-39.93	39.28	39.35	27.97	3.46	
2900.00	2887.21	2905.71	2897.31	6.36	6.23	155.39	-54.22	58.91	46.10	34.27	3.90	
3000.00	2981.32	3006.91	2994.62	6.80	6.60	154.99	-70.57	81.35	53.80	41.51	4.38	
3100.00	3073.87	3108.27	3091.05	7.33	7.03	154.65	-88.97	106.60	62.45	49.65	4.88	
3200.00	3164.67	3209.82	3186.48	7.94	7.52	154.35	-109.40	134.65	72.05	58.69	5.39	
3300.00	3253.57	3311.58	3280.82	8.64	8.08	154.09	-131.85	165.48	82.57	68.59	5.90	
3400.00	3340.56	3413.61	3373.98	9.44	8.71	153.82	-156.33	199.09	93.71	78.98	6.36	
3500.00	3427.16	3516.14	3466.06	10.29	9.43	152.74	-182.89	235.54	102.57	86.91	6.55	

Weatherford Drilling Services

Anticollision Report



Weatherford

Company:	Anadarko-Kerr-McGee	Date: 7/13/2007	Time: 08:47:56	Page: 2
Field:	UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)			
Reference Site:	NBU 1022-13O1CS	Co-ordinate(NE) Reference:	Site: NBU 1022-13O1CS, Grid North	
Reference Well:	Well #13O1CS	Vertical (TVD) Reference:	SITE 5308.0	
Reference Wellpath:	1	Db: Sybase		

Site: NBU #1022-13O4S
Well: NBU 1022-13O4S
Wellpath: 1 V0 Plan: Plan #3 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East				
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
3600.00	3513.76	3619.02	3556.76	11.17	10.22	150.74	-211.47	274.77	108.53	91.72	6.45	
3700.00	3600.36	3720.08	3644.43	12.08	11.08	148.06	-241.07	315.41	112.29	94.12	6.18	
3800.00	3686.97	3819.88	3730.86	13.00	11.95	145.50	-270.45	355.74	116.06	96.35	5.89	
3900.00	3773.57	3919.68	3817.28	13.94	12.85	143.11	-299.83	396.08	120.05	98.70	5.62	
4000.00	3860.17	4019.48	3903.71	14.89	13.76	140.87	-329.21	436.41	124.23	101.15	5.38	
4100.00	3946.77	4119.28	3990.14	15.86	14.69	138.78	-358.59	476.74	128.59	103.71	5.17	
4200.00	4033.38	4219.07	4076.57	16.83	15.64	136.83	-387.97	517.08	133.11	106.36	4.98	
4300.00	4119.98	4318.87	4163.00	17.81	16.59	135.01	-417.35	557.41	137.78	109.11	4.81	
4400.00	4206.58	4418.67	4249.42	18.79	17.55	133.30	-446.73	597.74	142.57	111.95	4.66	
4500.00	4293.18	4518.47	4335.85	19.78	18.52	131.72	-476.11	638.07	147.48	114.87	4.52	
4600.00	4379.79	4618.27	4422.28	20.78	19.49	130.23	-505.49	678.41	152.50	117.86	4.40	
4700.00	4466.39	4718.07	4508.71	21.77	20.47	128.84	-534.87	718.74	157.61	120.93	4.30	
4800.00	4552.99	4817.87	4595.14	22.77	21.45	127.54	-564.25	759.07	162.81	124.07	4.20	
4900.00	4639.59	4917.66	4681.56	23.78	22.44	126.32	-593.63	799.41	168.09	127.28	4.12	
5000.00	4726.20	5017.46	4767.99	24.79	23.43	125.17	-623.01	839.74	173.44	130.54	4.04	
5100.00	4812.80	5117.26	4854.42	25.80	24.42	124.09	-652.39	880.07	178.85	133.86	3.98	
5200.00	4899.40	5217.06	4940.85	26.81	25.41	123.08	-681.77	920.40	184.33	137.24	3.91	
5300.00	4986.00	5316.86	5027.28	27.82	26.41	122.13	-711.15	960.74	189.86	140.66	3.86	
5400.00	5072.61	5416.66	5113.70	28.83	27.41	121.22	-740.53	1001.07	195.44	144.13	3.81	
5500.00	5159.21	5516.45	5200.13	29.85	28.41	120.37	-769.91	1041.40	201.06	147.64	3.76	
5600.00	5245.84	5616.25	5286.56	30.84	29.42	119.57	-799.29	1081.74	206.70	151.19	3.72	
5700.00	5333.32	5716.04	5372.98	31.52	30.42	118.45	-828.67	1122.06	211.55	154.10	3.68	
5800.00	5422.04	5815.75	5459.33	32.18	31.42	116.75	-858.02	1162.36	215.29	155.73	3.61	
5900.00	5511.94	5915.33	5545.56	32.81	32.43	114.48	-887.33	1202.61	218.14	156.32	3.53	
6000.00	5602.96	6014.69	5631.62	33.40	33.43	111.66	-916.59	1242.76	220.35	156.19	3.43	
6100.00	5695.02	6113.67	5717.34	33.95	34.42	108.27	-945.72	1282.76	222.27	155.75	3.34	
6200.00	5788.08	6211.66	5802.94	34.47	35.22	104.74	-973.80	1321.31	224.53	155.97	3.27	
6300.00	5882.07	6310.01	5890.04	34.96	35.85	101.29	-1000.68	1358.20	227.36	157.14	3.24	
6400.00	5976.91	6408.71	5978.62	35.40	36.46	97.92	-1026.31	1393.40	230.72	159.11	3.22	
6500.00	6072.55	6507.78	6068.63	35.80	37.04	94.65	-1050.68	1426.85	234.59	161.84	3.22	
6600.00	6168.93	6607.21	6160.02	36.17	37.58	91.49	-1073.75	1458.52	238.91	165.29	3.25	
6700.00	6265.97	6707.02	6252.74	36.49	38.10	88.43	-1095.49	1488.36	243.65	169.40	3.28	
6800.00	6363.60	6807.20	6346.75	36.78	38.57	85.49	-1115.86	1516.33	248.76	174.13	3.33	
6900.00	6461.77	6907.75	6441.99	37.02	39.01	82.65	-1134.85	1542.39	254.22	179.43	3.40	
7000.00	6560.41	7008.68	6538.40	37.22	39.42	79.92	-1152.42	1566.51	259.96	185.23	3.48	
7100.00	6659.44	7109.99	6635.94	37.39	39.78	77.30	-1168.53	1588.64	265.97	191.49	3.57	
7200.00	6758.80	7211.68	6734.54	37.51	40.11	74.78	-1183.17	1608.74	272.21	198.16	3.68	
7300.00	6858.42	7313.75	6834.14	37.60	40.40	72.36	-1196.31	1626.77	278.63	205.19	3.79	
7400.00	6958.23	7416.20	6934.68	37.64	40.64	70.02	-1207.92	1642.70	285.21	212.53	3.92	
7500.00	7058.17	7519.04	7036.08	37.65	40.85	67.78	-1217.97	1656.50	291.92	220.14	4.07	
7600.00	7158.17	7622.27	7138.30	37.63	41.01	184.40	-1226.43	1668.12	298.71	248.57	5.96	
7700.00	7258.17	7726.08	7241.45	37.67	41.14	182.53	-1233.30	1677.55	304.80	255.19	6.14	
7800.00	7358.17	7830.45	7345.44	37.71	41.22	181.15	-1238.54	1684.75	309.61	260.35	6.29	
7900.00	7458.17	7935.24	7450.05	37.76	41.26	180.24	-1242.12	1689.66	312.97	263.92	6.38	
8000.00	7558.17	8040.28	7555.03	37.80	41.26	179.77	-1244.01	1692.25	314.77	265.80	6.43	
8100.00	7658.17	8143.41	7658.17	37.85	41.24	179.69	-1244.33	1692.69	315.07	285.04	10.49	
8200.00	7758.17	8243.41	7758.17	37.90	41.26	179.69	-1244.33	1692.69	315.07	284.87	10.43	
8300.00	7858.17	8343.41	7858.17	37.94	41.31	179.69	-1244.33	1692.69	315.07	284.64	10.35	
8400.00	7958.17	8443.41	7958.17	37.99	41.35	179.69	-1244.33	1692.69	315.07	284.41	10.28	
8500.00	8058.17	8543.41	8058.17	38.04	41.40	179.69	-1244.33	1692.69	315.07	284.17	10.20	
8571.83	8130.00	8595.24	8110.00	38.08	41.42	179.69	-1244.33	1692.69	315.71	284.66	10.17	

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,
#1022-13D4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S, #1022-
13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S, #1022-13M2AS,
#1022-13N2S, #1022-13N1S, #1022-13M2CS & #1022-13M1S

SECTION 13, T10S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 12.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 3.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 5.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 58.7 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,
#1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,
#1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,
#1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS
& #1022-13M1S

LOCATED IN UINTAH COUNTY, UTAH
SECTION 13, T10S, R22E, S.L.B.&M.

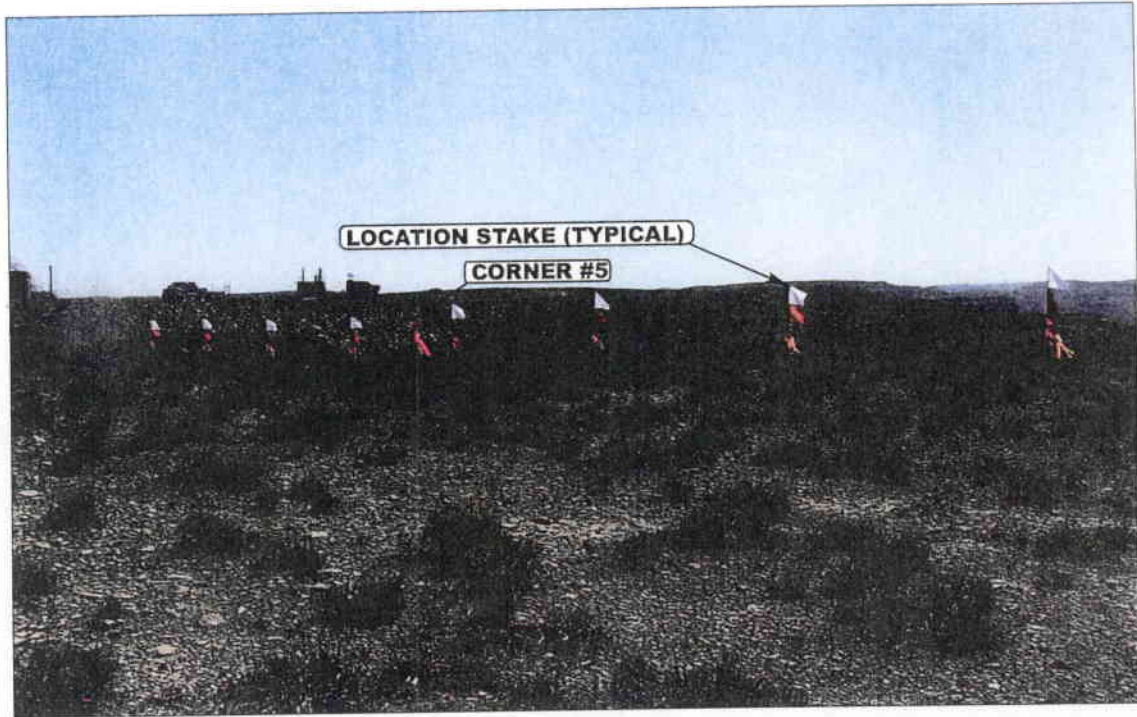


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: SOUTHERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: WESTERLY



UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

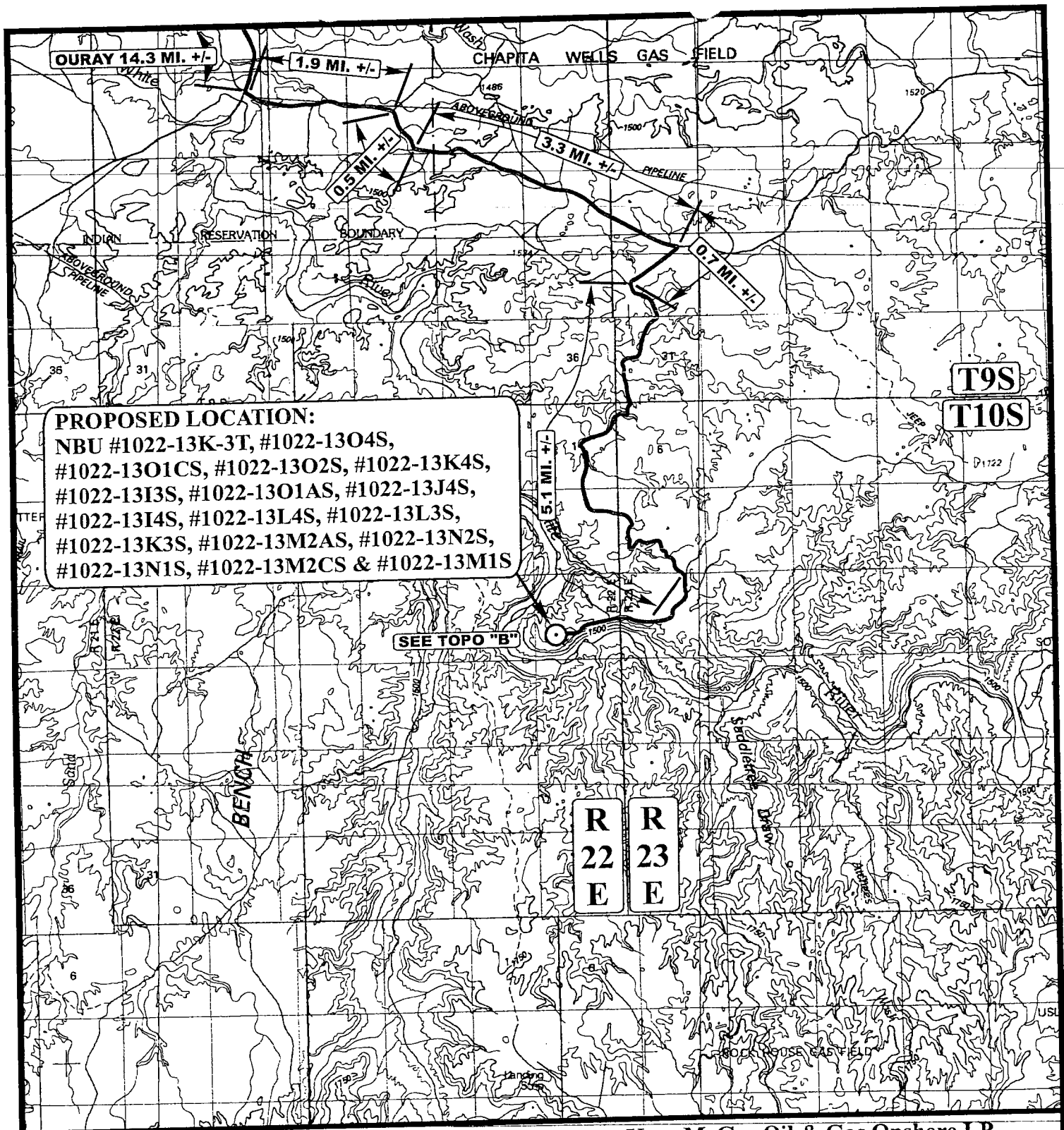
05 17 07
MONTH DAY YEAR

PHOTO

TAKEN BY: L.K.

DRAWN BY: C.P.

REVISED: 00-00-00



PROPOSED LOCATION:

NBU #1022-13K-3T, #1022-13O4S,
 #1022-13O1CS, #1022-13O2S, #1022-13K4S,
 #1022-13I3S, #1022-13O1AS, #1022-13J4S,
 #1022-13I4S, #1022-13L4S, #1022-13L3S,
 #1022-13K3S, #1022-13M2AS, #1022-13N2S,
 #1022-13N1S, #1022-13M2CS & #1022-13M1S

SEE TOPO "B"

LEGEND:

○ PROPOSED LOCATION

N

Kerr-McGee Oil & Gas Onshore LP

NBU#1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,
 #1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,
 #1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,
 #1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS
 & #1022-13M1S

SECTION 13, T10S, R22E, S.L.B.&M.; SW 1/4



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
 MAP

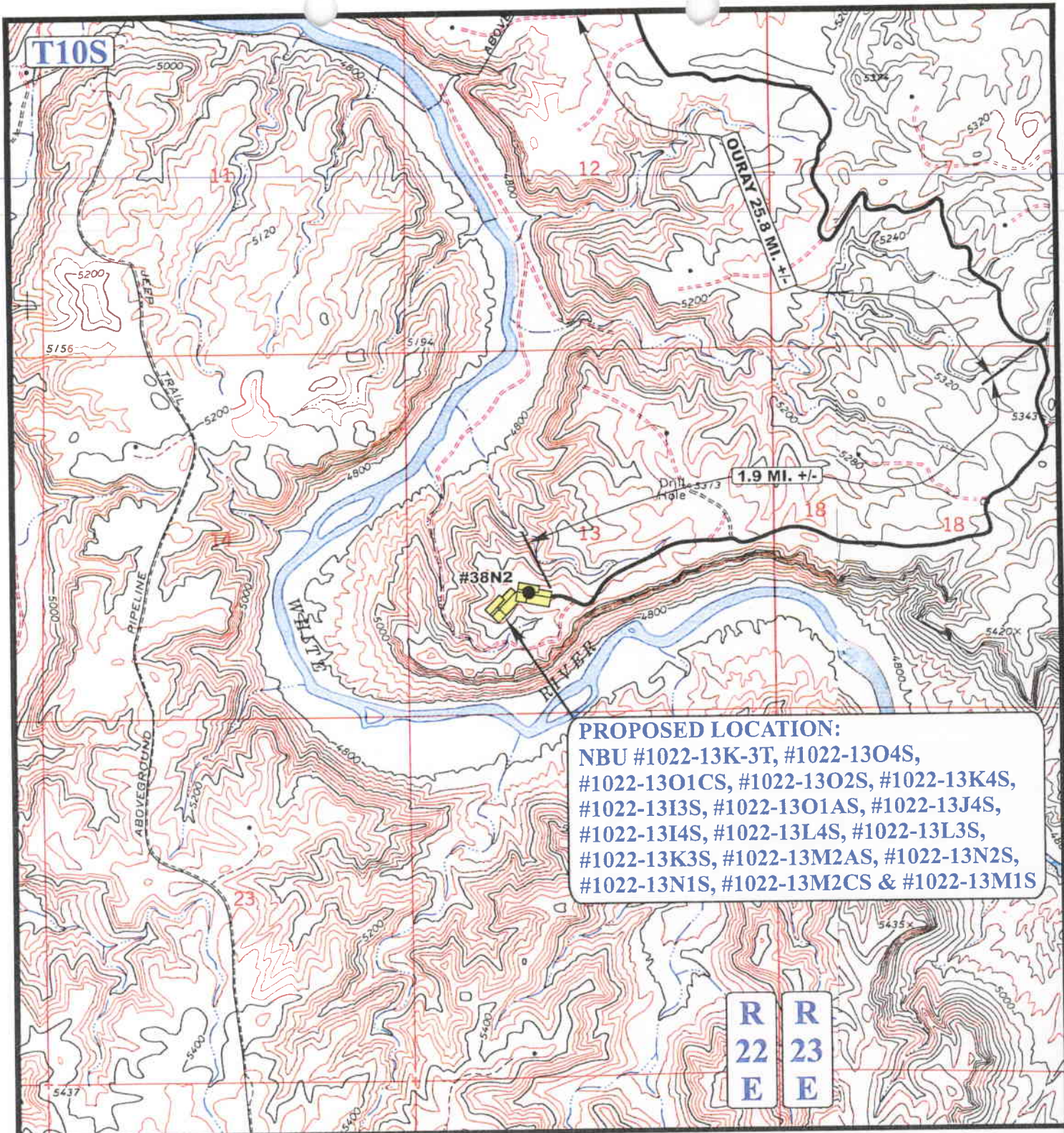
05 17 07
 MONTH DAY YEAR

SCALE: 1:100,000

DRAWN BY: C.P.

REVISED: 00-00-00

A
 TOPO



LEGEND:

- EXISTING ROAD
 - - - PROPOSED ACCESS ROAD



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Kerr-McGee Oil & Gas Onshore LP

NBU#1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,
 #1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,
 #1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,
 #1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS
 & #1022-13M1S

SECTION 13, T10S, R22E, S.L.B. & M.; SW 1/4

**TOPOGRAPHIC
 MAP**

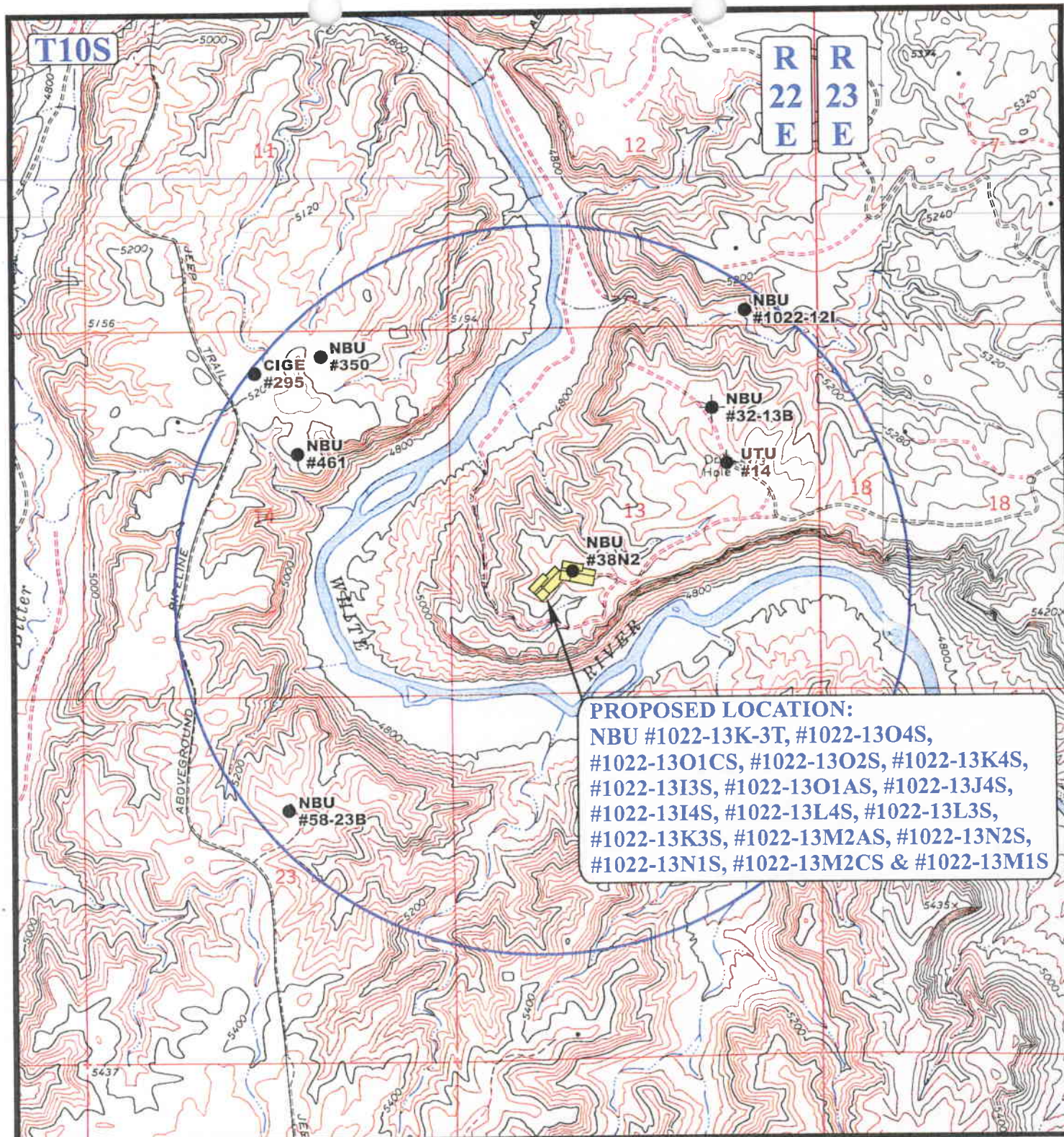
05 17 07
 MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: C.P.

REVISED: 00-00-00





LEGEND:

- | | |
|-------------------|-------------------------|
| ⊗ DISPOSAL WELLS | ⊗ WATER WELLS |
| ● PRODUCING WELLS | ● ABANDONED WELLS |
| ● SHUT IN WELLS | ● TEMPORARILY ABANDONED |



Kerr-McGee Oil & Gas Onshore LP

NBU#1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,
 #1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,
 #1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,
 #1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS
 & #1022-13M1S

SECTION 13, T10S, R22E, S.L.B.&M.; SW 1/4



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 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
MAP**

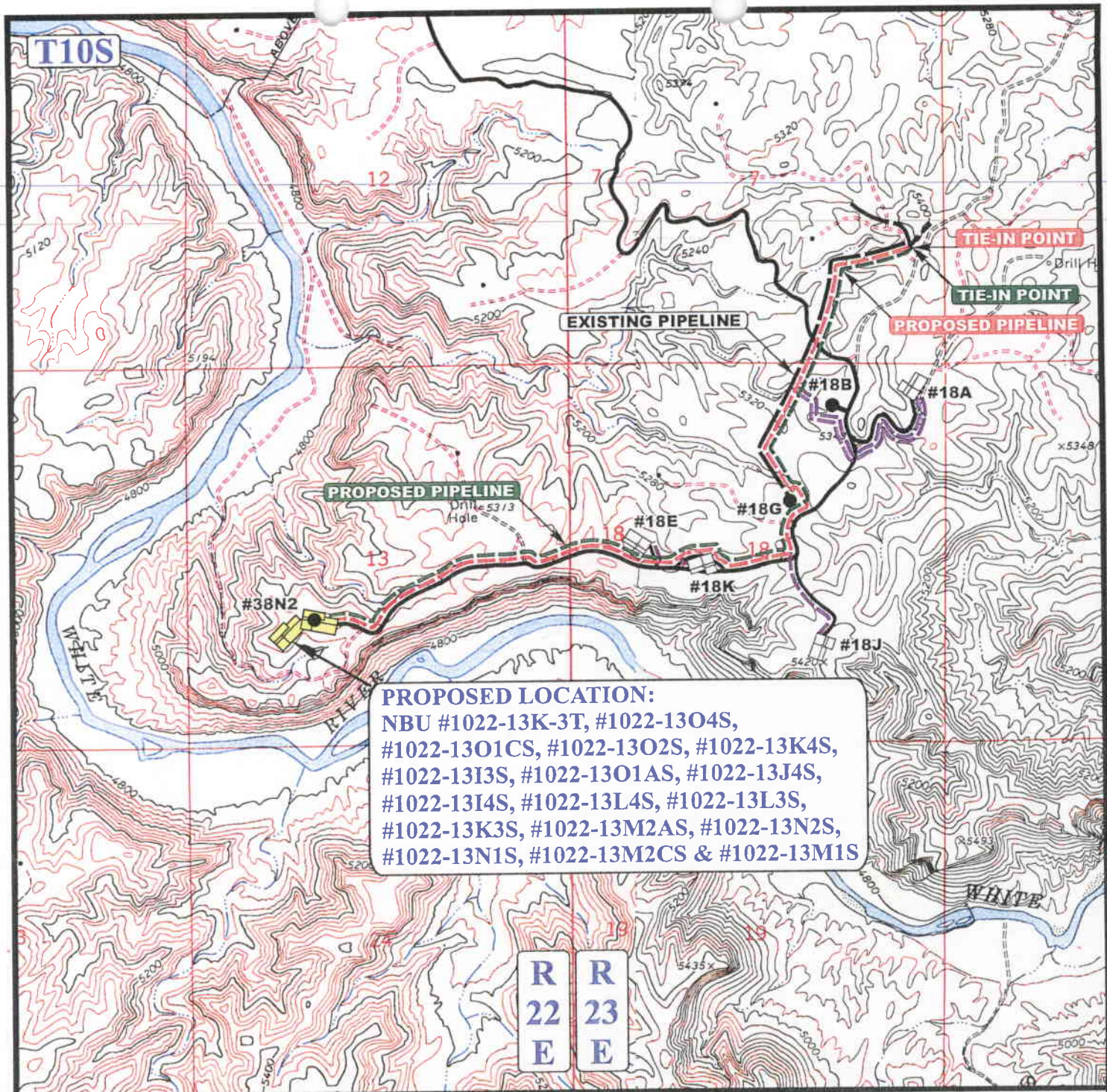
05 17 07
 MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: C.P.

REVISED: 00-00-00





APPROXIMATE TOTAL 10" PIPELINE DISTANCE = 12,184' +/-

APPROXIMATE TOTAL 6" PIPELINE DISTANCE = 12,184' +/-

LEGEND:

	EXISTING ROAD
	EXISTING PIPELINE
	PROPOSED PIPELINE
	PROPOSED PIPELINE (SERVICING OTHER WELLS)



Uintah Engineering & Land Surveying
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Kerr-McGee Oil & Gas Onshore LP

NBU#1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,
 #1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,
 #1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,
 #1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS
 & #1022-13M1S

SECTION 13, T10S, R22E, S.L.B.&M.; SW 1/4

TOPOGRAPHIC
 MAP

05 17 07
 MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: C.P.

REVISED: 07-19-07



Kerr-McGee Oil & Gas Onshore LP

NBU #1022-13K-3T, #1022-13O4S, #1022-13O1CS, #1022-13O2S,
#1022-13K4S, #1022-13I3S, #1022-13O1AS, #1022-13J4S,
#1022-13I4S, #1022-13L4S, #1022-13L3S, #1022-13K3S,
#1022-13M2AS, #1022-13N2S, #1022-13N1S, #1022-13M2CS
& #1022-13M1S

PIPELINE ALIGNMENT
LOCATED IN UTAH COUNTY, UTAH
SECTION 13, T10S, R22E, S.L.B.&M.



PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: WESTERLY



PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: WESTERLY



UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS

05 17 07
MONTH DAY YEAR

PHOTO

TAKEN BY: L.K.

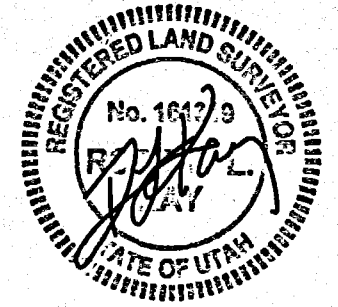
DRAWN BY: C.P.

REVISED: 00-00-00

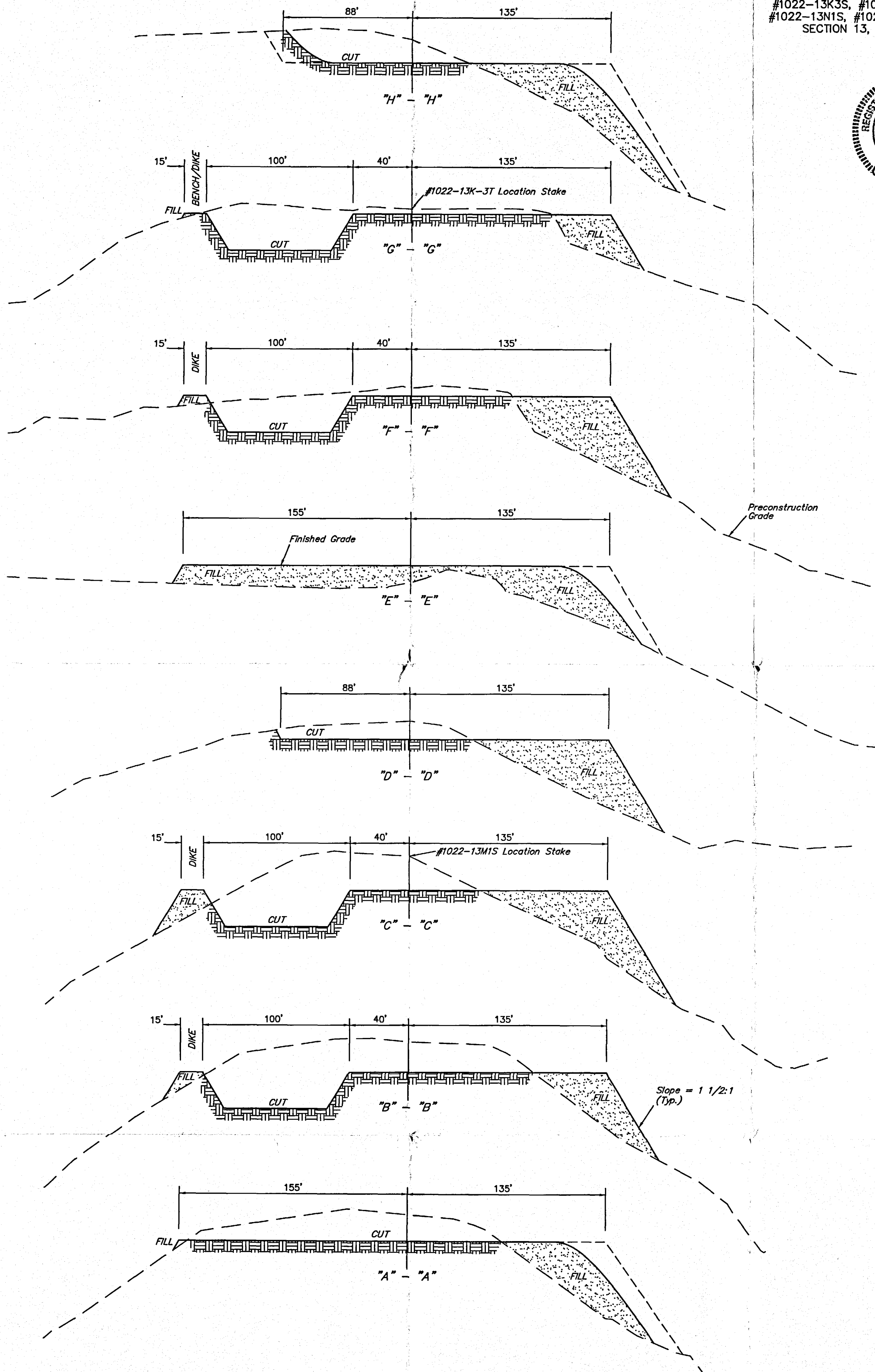
FIGURE #2

TYPICAL CROSS SECTIONS FOR

NBU #1022-13K-3T, #1022-1304S,
#1022-1301CS, #1022-1302S, #1022-13K4S,
#1022-13I3S, #1022-1301AS, #1022-13J4S,
#1022-13I4S, #1022-13L4S, #1022-13L3S,
#1022-13K3S, #1022-13M2AS, #1022-13N2S,
#1022-13N1S, #1022-13M2CS & #1022-13M1S
SECTION 13, T10S, R22E, S.L.B.&M.
SW 1/4



1" = 20'
X-Section
Scale
1" = 50'
DATE: 6-13-07
Drawn By: K.G.



NOTE:
Topsoil should not be
Stripped Below Finished
Grade on Substructure Area.

APPROXIMATE YARDAGES FOR #13-1 PAD

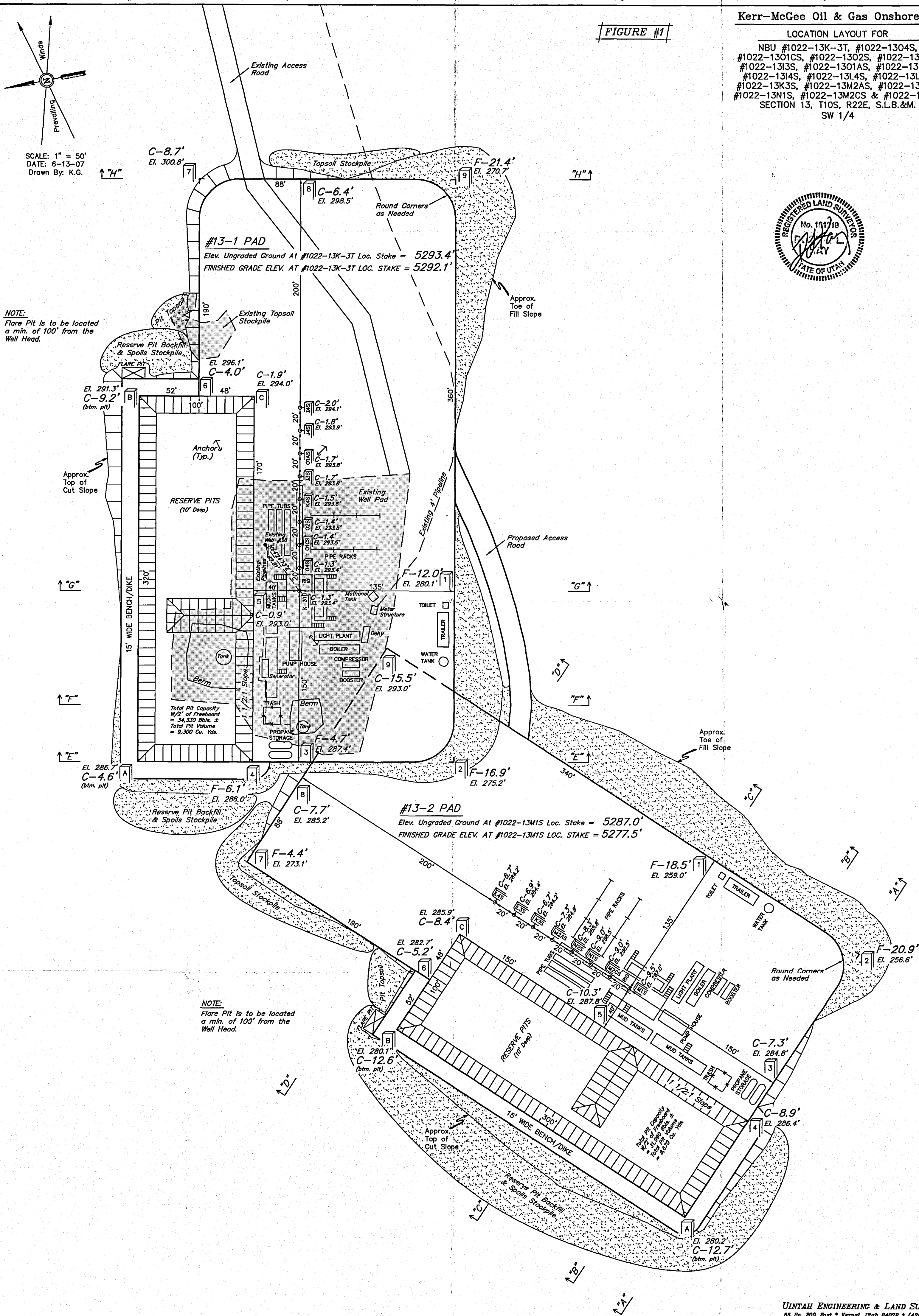
CUT	
(6") Topsoil Stripping	= 3,160 Cu. Yds.
Remaining Location	= 18,230 Cu. Yds.
TOTAL CUT	= 21,390 CU.YDS.
FILL	= 13,580 CU.YDS.
EXCESS MATERIAL	= 7,810 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 7,810 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

APPROXIMATE YARDAGES FOR #13-2 PAD

CUT	
(6") Topsoil Stripping	= 2,860 Cu. Yds.
Remaining Location	= 24,050 Cu. Yds.
TOTAL CUT	= 26,910 CU.YDS.
FILL	= 19,710 CU.YDS.
EXCESS MATERIAL	= 7,200 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 7,200 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

A circular professional seal for a Registered Land Surveyor in the State of Utah. The outer ring contains the text "REGISTERED LAND SURVEYOR" at the top and "STATE OF UTAH" at the bottom. Inside the ring, the number "No. 181719" is printed. Below the number, the name "Robert L. Jay" is written in a cursive script. The seal is stamped in black ink on a light-colored background.

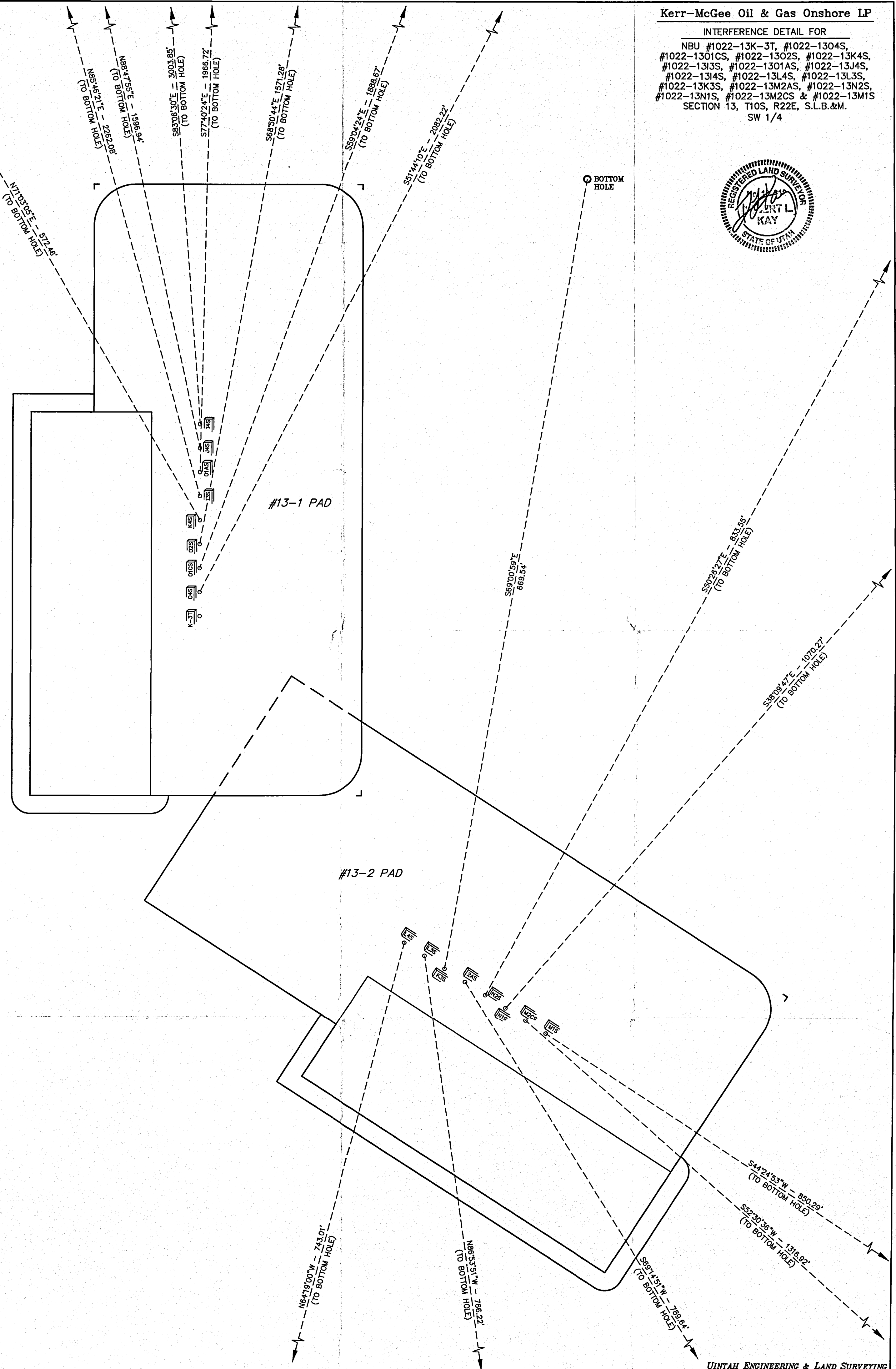


INTERFERENCE DETAIL FOR

NBU #1022-13K-3T, #1022-13O4S,
#1022-13O1CS, #1022-13O2S, #1022-13K4S,
#1022-13I3S, #1022-13O1AS, #1022-13J4S,
#1022-13I4S, #1022-13L4S, #1022-13L3S,
#1022-13K3S, #1022-13M2AS, #1022-13N2S,
#1022-13N1S, #1022-13M2CS & #1022-13M1S
SECTION 13, T10S, R22E, S.L.B.&M.
SW 1/4



SCALE: 1" = 50'
DATE: 6-13-07
Drawn By: K.G.



WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 08/06/2007

API NO. ASSIGNED: 43-047-39476

WELL NAME: NBU 1022-1301CS

OPERATOR: KERR-MCGEE OIL & GAS (N2995)

CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:

NE SW 13 100S 220E

SURFACE: 1747 FSL 1705 FWL

BOTTOM: 0775 FSL 1920 FEL

COUNTY: Uintah

LATITUDE: 39.94647 LONGITUDE: -109.3910

UTM SURF EASTINGS: 637462 NORTHINGS: 4422845

FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /

Tech Review

Initials

Date

Engineering

DKD

8/31/07

Geology

Surface

LEASE TYPE: 3 - State

LEASE NUMBER: STUO-08512-ST

SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[] Ind[] Sta[] Fee[]
(No. 22013542)

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit

(No. 43-8496)

☒ RDCC Review (Y/N)

(Date:)

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: NATURAL BUTTES

___ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

___ R649-3-3. Exception

☒ Drilling Unit

Board Cause No: 2173-14

Eff Date: 12-2-07

Siting: 460' fr u bdr & uncomm. tract

☒ R649-3-11. Directional Drill

COMMENTS:

Needs Permit (06-27-07)

STIPULATIONS:

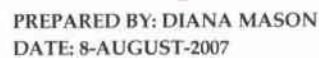
1- STATEMENT OF BASIS

2- OIL SHALE

3- Surface Csg Cont Stip

T10S R23E

CAUSE: 173-14 / 12-2-1999



Application for Permit to Drill

Statement of Basis

Utah Division of Oil, Gas and Mining

8/15/2007

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
483	43-047-39476-00-00		GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, LP	Surface Owner-APD			
Well Name	NBU 1022-1301CS	Unit			
Field	UNDESIGNATED	Type of Work			
Location	NESW 13 10S 22E S 1747 FSL 1705 FWL GPS Coord (UTM) 637462E 4422845N				

Geologic Statement of Basis

Kerr McGee proposes to set 2,100' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 4,300'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 13. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole.

Brad Hill
APD Evaluator

8/15/2007
Date / Time

Surface Statement of Basis

The general area is in the southeast end of the Natural Buttes Unit, which contains the White River and short rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from ¼ mile to 2 miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 43 air miles to the northwest. Access from Ouray, Utah is approximately 27.7 road miles following Utah State, Uintah County and oilfield development roads to the location.

Seventeen new gas wells are proposed on two connected pads. The pads form a dogleg with the upper pad (#13-1) extending in an east-west direction and the lower pad (#13-2) in a northeast to southwest direction. Corners of the pads overlap with fill from the upper pad, corner 2, extending onto the lower pad at corner 9. Finished elevation of the upper pad is 15 feet higher than the lower pad. A road is proposed on the inside of the dog-leg ramping down to the lower pad. The pads are located on top of a medium width to narrow ridge-top elevated about 500 vertical feet above the White River. The White River forms a bend in the area and somewhat surrounds the locations except on the east-northeast sides. Closest horizontal distance to any well is approximately 1550 feet. Slopes from the ridge steepen and become near vertical sandstone ledges short distances from the pads. Soils are shallow with a rocky subsurface. Except for reserve pit construction blasting is not expected to be required. Pad construction will primarily consist of excavating the top of the ridge filling on the sides of the ridge. All fills will catch on existing natural side slopes. No drainage concerns exist. Elongated reserve pits are planned. Pits will be in cut except along corner 'C' on the lower #13-2 pad and corner 'F' on the upper #13-1 pad. Both areas will be reinforced with embankments which include a 15' wide bench and spoils storage. Reserve pits will be lined with double 20 mil. liners and a appropriate thickness of sub felt to cushion all rocks. A pad for a producing gas well (NBU #38-N2) exist on a portion of the upper pad. Area encompassed for the pads not including spoils storage is approximately 6.7 acres.

When the wells are completed the west tank on the west corner of the upper pad will be in view for about 1/8 mile along the river bottom. Even though rafters would have to look behind them to see this tank, Kerr McGee agreed to use a low profile tank for this location.

Application for Permit to Drill

Statement of Basis

8/15/2007

Utah Division of Oil, Gas and Mining

Page 2

Both the surface and minerals for this location are owned by SITLA. Jim Davis of SITLA attended the pre-site visit and expressed no concerns regarding the proposed location except for those discussed above.

The location appears to be the only site for constructing pads and drilling and operating multiple wells in the area.

It was mutually agreed that the most significant environmental concern with drilling and operating wells in this area was to avoid any leaks or spills from the operations reaching the White River. To reduce chances of this happening, Carroll Estes of Kerr McGee committed to line the pit with a double 20 mil liner with an appropriate thickness of felt sub-liner dependent upon the roughness of the surface of the constructed pit. He also stated they would formulate and follow a plan to monitor the level of fluids in the reserve pit as well as observing the surrounding terrain for any possible leaks. Corrugated metal containments will be constructed around all tanks used for production.

Floyd Bartlett
Onsite Evaluator

6/27/2007
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A double synthetic liner each with a minimum thickness of 20 mils and an appropriate thickness of felt sub-liner to cushion the liners shall be properly installed and maintained in the reserve pit.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, LP
Well Name NBU 1022-13O1CS
API Number 43-047-39476-0 **APD No** 483 **Field/Unit** UNDESIGNATED
Location: 1/4,1/4 NESW **Sec** 13 **Tw** 10S **Rng** 22E 1747 FSL 1705 FWL
GPS Coord (UTM) 637471 4422850 **Surface Owner**

Participants

Floyd Bartlett (DOGM), Jim Davis (SITLA), Carroll Estes, Tony Kznick, and Clay Einerson (Kerr McGee), David Kay (Uintah Engineering and Land Surveying), and Daniel Emmett (UDWR)

Regional/Local Setting & Topography

The general area is in the southeast end of the Natural Buttes Unit, which contains the White River and short rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from ¼ mile to 2 miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 43 air miles to the northwest. Access from Ouray, Utah is approximately 27.7 road miles following Utah State, Uintah County and oilfield development roads to the location.

Seventeen new gas wells are proposed on two connected pads. The pads form a dogleg with the upper pad (#13-1) extending in an east-west direction and the lower pad (#13-2) in a northeast to southwest direction. Corners of the pads overlap with fill from the upper pad, corner 2, extending onto the lower pad at corner 9. Finished elevation of the upper pad is 15 feet higher than the lower pad. A road is proposed on the inside of the dog-leg ramping down to the lower pad. The pads are located on top of a medium width to narrow ridge-top elevated about 500 vertical feet above the White River. The White River forms a bend in the area and somewhat surrounds the locations except on the east-northeast sides. Closest horizontal distance to any well is approximately 1550 feet. Slopes from the ridge steepen and become near vertical sandstone ledges short distances from the pads. Soils are shallow with a rocky subsurface. Except for reserve pit construction blasting is not expected to be required. Pad construction will primarily consist of excavating the top of the ridge filling on the sides of the ridge. All fills will catch on existing natural side slopes. No drainage concerns exist. Elongated reserve pits are planned. Pits will be in cut except along corner 'C' on the lower #13-2 pad and corner 'F' on the upper #13-1 pad. Both areas will be reinforced with embankments which include a 15' wide bench and spoils storage. Reserve pits will be lined with double 20 mil. liners and a appropriate thickness of sub felt to cushion all rocks. A pad for a producing gas well (NBU #38-N2) exist on a portion of the upper pad. Area encompassed for the pads not including spoils storage is approximately 6.7 acres.

Both the surface and minerals for this location are owned by SITLA.

Surface Use Plan

Current Surface Use

Grazing
Recreational
Wildlfe Habitat
Existing Well Pad

New Road

Miles	Well Pad	Src Const Material	Surface Formation
0	Width 290 Length 510	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetland N

Flora / Fauna

Moderately vegetated with black sagebrush, halogeton, shadscale, rabbit brush, broom snakeweed, cheatgrass, six-week fescue and spring annuals.

Antelope, coyote, small mammals and birds. Winter domestic sheep grazing

Soil Type and Characteristics

Shallow gravely sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y Paleo Potential Observed? N Cultural Survey Run? Y Cultural Resources?

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	<300	20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	<10	0
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0
Final Score		35
		1 Sensitivity Level

Characteristics / Requirements

The reserve pit is proposed on the northwest corner of the upper pad. Portions of the outer edge will be within partial fill. A 15' wide bench/dike is planned along the outer edge as well as reserve pit spoils storage along the west end. Finished pit dimensions are 100' x 320' x 10' deep. Carroll Estes of Kerr McGee committed to line the pit with a double 20 mil liner with an appropriate thickness of felt sub-liner dependent upon the roughness of the surface of the constructed pit.

Mr. Estes also stated they would formulate and follow a plan to monitor the level of fluids in the reserve pit as well as observing the surrounding terrain for any possible leaks.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 40 **Pit Underlayment Required?** Y

Other Observations / Comments

Daniel Emmet represented the Utah Division of Wildlife Resources. Mr. Emmet stated the area is classified as critical yearlong habitat for antelope. He however recommended no stipulations for this species as the loss of forage from this location is not significant and water not forage is the factor limiting the herd population in the area. No other wildlife is expected to be affected. He gave Carrol Estes, representing Kerr McGee, and Jim Davis copies of his evaluation and a DWR recommended seed mix to use when re-vegetating the area.

Floyd Bartlett

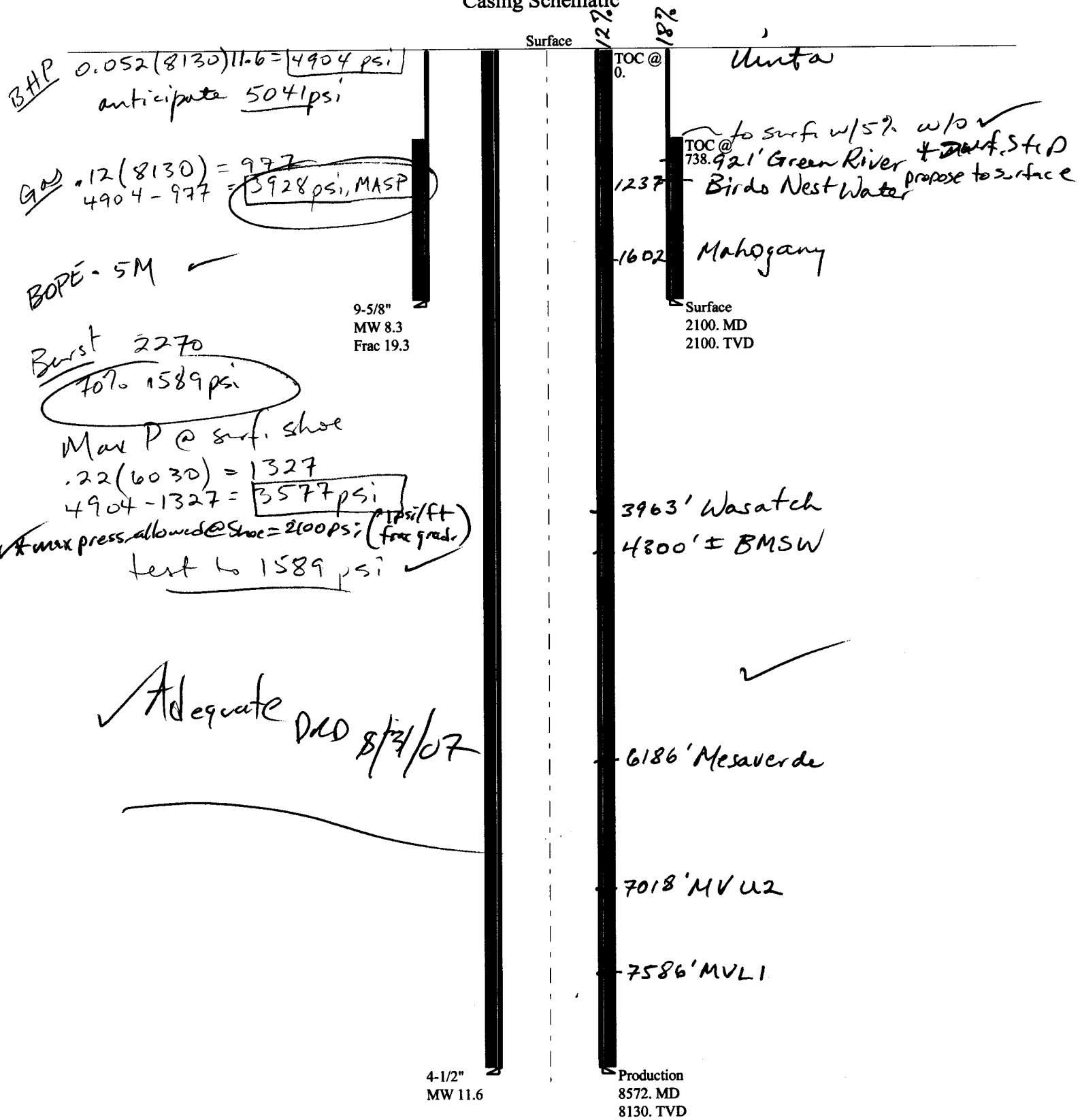
Evaluator

6/27/2007

Date / Time

2007-08 Kerr McGee NBU 1022-1301CS

Casing Schematic



Well name:	2007-08 Kerr McGee NBU 1022-1301CS	
Operator:	Kerr McGee Oil & Gas Onshore L.P.	
String type:	Surface	Project ID: 43-047-39476
Location:	Uintah County, Utah	

Design parameters:
Collapse

Mud weight: 8.300 ppg
Design is based on evacuated pipe.

Minimum design factors:
Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 104 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,300 ft

Cement top: 738 ft

Burst

Max anticipated surface pressure: 1,848 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,100 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 1,844 ft

Non-directional string.
Re subsequent strings:

Next setting depth: 8,130 ft
Next mud weight: 11.600 ppg
Next setting BHP: 4,899 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,100 ft
Injection pressure: 2,100 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2100	9.625	32.30	H-40	ST&C	2100	2100	8.876	927.9

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	905	1370	1.513	2100	2270	1.08	60	254	4.26 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Minerals

Phone: (801) 538-5357
FAX: (801) 359-3940

Date: August 27, 2007
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2100 ft, a mud weight of 8.3 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	2007-08 Kerr McGee NBU 1022-1301CS	
Operator:	Kerr McGee Oil & Gas Onshore L.P.	Project ID:
String type:	Production	43-047-39476
Location:	Uintah County, Utah	

Design parameters:
Collapse

Mud weight: 11.600 ppg
Design is based on evacuated pipe.

Minimum design factors:
Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 189 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 3,111 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 4,899 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Directional Info - Build & Drop

Kick-off point 2160 ft
Departure at shoe: 1930 ft
Maximum dogleg: 2.5 °/100ft
Inclination at shoe: 0 °

Tension is based on buoyed weight.

Neutral point: 7,161 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	8572	4.5	11.60	I-80	LT&C	8130	8572	3.875	748

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4899	6360	1.298	4899	7780	1.59	78	212	2.72 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Minerals

Phone: (801) 538-5357
FAX: (801) 359-3940

Date: August 27, 2007
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8130 ft, a mud weight of 11.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.



Kerr McGee Oil and Gas Onshore LP
1368 SOUTH 1200 EAST • VERNAL, UT 84078
435-789-4433 • FAX 435-781-7094

July 31, 2007

Diana Whitney
State of Utah
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Directional Drilling R649-3-11
NBU 1022-13O1CS 1747'FSL, 1705'FWL (Surface)
775'FSL, 1920'FEL (Bottomhole)
Uintah County, Utah

Dear Ms. Whitney:

Pursuant to filing of Kerr McGee Oil & Gas Onshore L.P. Application for Permit to Drill regarding the above referenced well on July 31, 2007, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to location and siting of wells.

- NBU 1022-13O1CS is located within the Natural Buttes Unit Area.
- Kerr McGee Oil & Gas Onshore L.P., is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr McGee Oil & Gas Onshore L.P., will be able to utilize the existing road and pipeline in the area.
- Furthermore, Kerr McGee Oil & Gas Onshore L.P. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr McGee Oil & Gas Onshore L.P. requests that the permit be granted pursuant to R649-3-11.

Sincerely,

A handwritten signature in black ink, appearing to read 'Sheila Upchego', written over the typed name.
Sheila Upchego
Senior Land Admin Specialist

RECEIVED
AUG 06 2007
DIV. OF OIL, GAS & MINING

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

August 9, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2007 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Wasatch/MesaVerde)		
43-047-39473	NBU 1022-13K4S	Sec 13 T10S R22E 1739 FSL 1745 FWL
	BHL	Sec 13 T10S R22E 1925 FSL 2280 FWL
43-047-39474	NBU 1022-1313S	Sec 13 T10S R22E 1735 FSL 1764 FWL
	BHL	Sec 13 T10S R22E 1900 FSL 1225 FEL
43-047-39475	NBU 1022-1314S	Sec 13 T10S R22E 1724 FSL 1824 FWL
	BHL	Sec 13 T10S R22E 1360 FSL 0440 FEL
43-047-39476	NBU 1022-1301CS	Sec 13 T10S R22E 1747 FSL 1705 FWL
	BHL	Sec 13 T10S R22E 0775 FSL 1920 FEL
43-047-39477	NBU 1022-13J4S	Sec 13 T10S R22E 1728 FSL 1804 FWL
	BHL	Sec 13 T10S R22E 1760 FSL 1845 FEL
43-047-39478	NBU 1022-1301AS	Sec 13 T10S R22E 1731 FSL 1784 FWL
	BHL	Sec 13 T10S R22E 1310 FSL 1540 FEL
43-047-39479	NBU 1022-1302S	Sec 13 T10S R22E 1743 FSL 1725 FWL
	BHL	Sec 13 T10S R22E 1175 FSL 2055 FEL

43-047-39480	NBU 1022-1304S	Sec 13 T10S R22E 1750 FSL 1686 FWL
	BHL	Sec 13 T10S R22E 0460 FSL 1925 FEL
43-047-39481	NBU 1022-13K3S	Sec 13 T10S R22E 1610 FSL 1343 FWL
	BHL	Sec 13 T10S R22E 1370 FSL 1975 FWL
43-047-39482	NBU 1022-13M1S	Sec 13 T10S R22E 1538 FSL 1275 FWL
	BHL	Sec 13 T10S R22E 0930 FSL 0700 FWL
43-047-39483	NBU 1022-13M2AS	Sec 13 T10S R22E 1595 FSL 1329 FWL
	BHL	Sec 13 T10S R22E 1315 FSL 0600 FWL
43-047-39484	NBU 1022-13N1S	Sec 13 T10S R22E 1566 FSL 1302 FWL
	BHL	Sec 13 T10S R22E 0725 FSL 1990 FWL
43-047-39485	NBU 1022-13L3S	Sec 13 T10S R22E 1624 FSL 1356 FWL
	BHL	Sec 13 T10S R22E 1665 FSL 0590 FWL
43-047-39486	NBU 1022-13L4S	Sec 13 T10S R22E 1638 FSL 1370 FWL
	BHL	Sec 13 T10S R22E 1960 FSL 0690 FWL
43-047-39487	NBU 1022-13N2S	Sec 13 T10S R22E 1581 FSL 1316 FWL
	BHL	Sec 13 T10S R22E 1050 FSL 1975 FWL
43-047-39488	NBU 1022-13M2CS	Sec 13 T10S R22E 1552 FSL 1289 FWL
	BHL	Sec 13 T10S R22E 0750 FSL 0270 FWL
43-047-39489	NBU 1022-13K-3T	Sec 13 T10S R22E 1754 FSL 1666 FWL

Our records indicate the bottom hole location of the NBU 1022-1314S is closer than 460 feet from the Natural Buttes Unit boundary.

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit
 Division of Oil Gas and Mining
 Central Files
 Agr. Sec. Chron
 Fluid Chron

MCoulthard:mc:8-9-07

From: Ed Bonner
To: Mason, Diana
Date: 8/20/2007 3:07 PM
Subject: Well Clearance

CC: Davis, Jim; Garrison, LaVonne; Hill, Brad; Hunt, Gil

The following wells have been given cultural resources clearance by the Trust Lands Cultural Resources Group:

Cabot Oil & Gas Corporation
McKenna 21-32 (API 43 037 31863)

Kerr McGee Oil & Gas Onshore LP
NBU 1022-13K4S (API 43 047 39473)
NBU 1022-13I3S (API 43 047 39474)
NBU 1022-13I4S (API 43 047 39475)
NBU 1022-13O1CS (API 43 047 39476)
NBU 1022-13J4S (API 43 047 39477)
NBU 1022-13O1AS (API 43 047 39478)
NBU 1022-13O2S (API 43 047 39479)
NBU 1022-13O4S (API 43 047 39480)
NBU 1022-13K3S (API 43 047 39481)
NBU 1023-13M1S (API 43 047 39482)
NBU 1022-13M2AS (API 43 047 39483)
NBU 1022-13N1S (API 43 047 39484)
NBU 1022-13L3S (API 43 047 39485)
NBU 1022-13L4S (API 43 047 39486)
NBU 1022-13N2S (API 43 047 39487)
NBU 1022-13M2SC (API 43 047 39488)
NBU 1022-13K-3T (API 43 047 39489)

Petro-Canada Resources (USA), Inc
State 16-41 (API 43 015 30721)
State 32-44 (API 43 015 30722)

Royale Energy, Inc
Vernal Equinox 2-2 (API 43 019 31552)

XTO Energy, Inc
State of Utah 16-8-31-13 (API 43 015 30719)
State of Utah 16-8-31-33D (API 43 015 30718)

If you have any questions regarding this matter please give me a call.



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

September 4, 2007

Kerr McGee Oil & Gas Onshore LP
1368 S 1200 E
Vernal, UT 84078

Re: Natural Buttes Unit 1022-1301CS Well, 1747' FSL, 1705' FWL, NE SW, Sec. 13,
T. 10 South, R. 22 East, Bottom Location 775' FSL, 1920' FEL, SW SE, Sec. 13,
T. 10 South, R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39476.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
SITLA
Bureau of Land Management, Vernal Office



Operator: Kerr McGee Oil & Gas Onshore LP
Well Name & Number Natural Buttes Unit 1022-13O1CS
API Number: 43-047-39476
Lease: STUO-08512-ST

Location: NE SW Sec. 13 T. 10 South R. 22 East
Bottom Location: SW SE Sec. 13 T. 10 South R. 22 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at: (801) 538-5338 office (801) 942-0873 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
7. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.
8. Surface casing shall be cemented to the surface.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739479	NBU 1022-13O2S		NESW	13	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	11/13/2007		<u>11/26/07</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 11/13/2007 AT 12:00 PM. <u>BHL = SWSE</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739476	NBU 1022-13O1CS		NESW	13	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	11/13/2007		<u>11/26/07</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 11/13/2007 AT 9:00 AM. <u>BHL = SWSE</u>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739473	NBU 1022-13K4S		NESW	13	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	11/13/2007		<u>11/26/07</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 11/13/2007 AT 1500 HRS <u>BHL = NESW</u>							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA UPCHEGO

Name (Please Print)

Signature

SENIOR LAND SPECIALIST

Title

11/14/2007

Date

(5/2000)

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NOV 14 2007

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1747'FSL, 1705'FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E		8. WELL NAME and NUMBER: NBU 1022-1301CS
PHONE NUMBER: (435) 781-7024		9. API NUMBER: 4304739476
		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
		COUNTY: UINTAH
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: WELL SPUD
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 11/13/2007 AT 9:00 AM

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE <i>Sheila Upchego</i>	DATE 11/14/2007

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DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1747'FSL, 1705'FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E		8. WELL NAME and NUMBER: NBU 1022-13O1CS
		9. API NUMBER: 4304739476
		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
		COUNTY: UINTAH
		STATE: UTAH

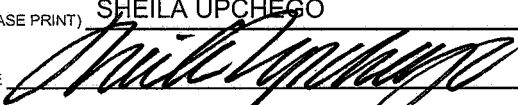
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: SET SURFACE CSG
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU BILL MARTIN AIR RIG ON 11/27/2007. DRILLED 12 1/4" SURFACE HOLE TO 2160'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/200 SX HIFILL CLASS G @11.0 PPG 3.82 YIELD. TAILED CMT W/200 SX PREM CLASS G @15.8 PPG 1.15 YIELD. RETURNS 120 BBL INTO DISPLACEMENT NO LEAD CMT TO SURFACE. RAN 200' OF 1" PIPE. CMT W/125 SX PREM CLASS G @15.8 PPG 1.15 YIELD DOWN 1" PIPE. NO CMT TO SURFACE. TOP OUT W/125 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE 	DATE 12/13/2007

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DEC 14 2007
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1747'FSL, 1705'FWL		8. WELL NAME and NUMBER: NBU 1022-13O1CS
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E		9. API NUMBER: 4304739476
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: FINAL DRILLING OPERATIONS
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.


FINISHED DRILLING FROM 2160' TO 8560' ON 02/10/2008. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/310 SX PREM LITE II @11.0 PPG 3.38 YIELD. TAILED CMT W/1250 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DROP PLUG & DISPLACE W/132.2 BBLs WATER BUMP PLUG W/500 OVER FINAL CIRC OF 2594 & PLUG HELD. GOT BACK 22.0 BBL LEAD CMT TO PIT. NIPPLE DONW BOPS SET SLIPS W/75 STING WT CUT 4 1/2" CSG. WASH AND CLEAN OUT MUD TANKS.

RELEASED ENSIGN RIG 83 ON 02/13/2008 AT 0500 HRS.

RECEIVED

FEB 25 2008

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE 	DATE 2/14/2008

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NOTICE OF LATE REPORTING DRILLING & COMPLETION INFORMATION

Utah Oil and Gas Conservation General Rule R649-3-6 states that,

- Operators shall submit monthly status reports for each drilling well (including wells where drilling operations have been suspended).

Utah Oil and Gas Conservation General Rule R649-3-21 states that,

- A well is considered completed when the well has been adequately worked to be capable of producing oil or gas or when well testing as required by the division is concluded.
- Within 30 days after the completion or plugging of a well, the following shall be filed:
 - Form 8, Well Completion or Recompletion Report and Log
 - A copy of electric and radioactivity logs, if run
 - A copy of drillstem test reports,
 - A copy of formation water analyses, porosity, permeability or fluid saturation determinations
 - A copy of core analyses, and lithologic logs or sample descriptions if compiled
 - A copy of directional, deviation, and/or measurement-while-drilling survey for each horizontal well

Failure to submit reports in a timely manner will result in the issuance of a Notice of Violation by the Division of Oil, Gas and Mining, and may result in the Division pursuing enforcement action as outlined in Rule R649-10, Administrative Procedures, and Section 40-6-11 of the Utah Code.

As of the mailing of this notice, the division has not received the required reports for

Operator: Kerr-McGee Oil & Gas Onshore, LP

Today's Date: 04/21/2008

Well:

43 047 39476
NBU 1022-1301CS
10S 22E 13

API Number:

Drilling Commenced:

☒ List Attached

To avoid compliance action, required reports should be mailed within 7 business days to:

Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

If you have questions or concerns regarding this matter, please contact Rachel Medina
at (801) 538-5260.

cc: Well File
Compliance File

**NOTICE OF LATE REPORTING
DRILLING & COMPLETION INFORMATION**

ATTACHMENT

Operator: Kerr-McGee Oil & Gas Onshore, LP

Today's Date: 04/21/2008

Well:	API Number:	Drilling Commenced:
NBU 1022-13L3S	4304739485	10/26/2007
NBU 1022-13L4S	4304739486	10/26/2007
NBU 1022-13K3S	4304739481	10/27/2007
NBU 1022-13N2S	4304739487	10/27/2007
NBU 1022-13M2AS	4304739483	10/29/2007
NBU 1022-13N1S	4304739484	10/29/2007
NBU 1022-13M2CS	4304739488	10/29/2007
NBU 1022-13M1S	4304739482	10/30/2007
NBU 1021-1G	4304739001	11/01/2007
NBU 102213O4S	4304739480	11/12/2007
NBU 1022-13K-3T	4304739489	11/12/2007
NBU 1022-13O1CS	4304739476	11/13/2007
NBU 1022-13I4S	4304739475	11/15/2007
NBU 1022-13J4S	4304739477	11/15/2007

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER _____

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE LP

3. ADDRESS OF OPERATOR:
1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:
(435) 781-7024

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1747'FSL, 1705'FWL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:
STUO-08512-ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
UNIT #891008900A

8. WELL NAME and NUMBER:
NBU 1022-13O1CS

9. API NUMBER:
4304739476

10. FIELD AND POOL, OR WILDCAT:
NATURAL BUTTES

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>PRODUCTION</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>START-UP</u>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 05/16/2008 AT 2:00 PM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE

DATE 5/19/2008

(This space for State use only)

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MAY 21 2008

DIV. OF OIL, GAS & MINING

WINS No.: 95378

NBU 1022-130-1CS

Start Date: 11/13/2007

AFE No.: 2008169

Operation Summary Report

End Date: 2/13/2008

Operator KERR-MCGEE OIL & GAS ONSHORE LP	FIELD NAME NATURAL BUTTES	SPUD DATE 11/13/07	GL 5,293	KB 5310	ROUTE
API 4304739476	STATE UTAH	COUNTY UINTAH	DIVISION ROCKIES		
Lat./Long.: Lat./Long.: 39.94644 / -109.39151		Q-Q/Sect/Town/Range: / 13 / 10S / 22E		Footages: 1,747.00' FSL 1,705.00' FWL	
MTD 8508	TVD 8089	LOG MD	PBMD	PBTVD	

EVENT INFORMATION: EVENT ACTIVITY: DRILLING REASON:
 OBJECTIVE: DEVELOPMENT DATE WELL STARTED/RESUMED:
 OBJECTIVE2: Event End Status: COMPLETE

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PETE MARTIN DRILLING / I	11/13/2007	11/13/2007	11/13/2007	11/13/2007			11/27/2007

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
------	----------------	---------------	-------	------	---------	-----	-----------

11/13/2007

SUPERVISOR: LEW WELDON

9:00 - 15:00 6.00 DRLCON 02 P MOVE IN AND RIG UP BUCKET RIG SPUD WELL @ 0900 HR
 11/13/07 DRILL AND SET 40' OF SCHEDULE 10 PIPE DRILL
 RODENT HOLES FOR RIG 83 BLM AND STATE NOTIFIED OF
 SPUD

11/27/2007

SUPERVISOR: LEW WELDON

15:30 - 18:00 2.50 DRLSUR 02 P MOVE IN AND RIG UP AIR RIG SPUD WELL @ 1530 HR 11/27/07
 DRILL TO 300' AND SDFN
 18:00 - 0:00 6.00 DRLSUR 12 P SDFN

11/28/2007

SUPERVISOR: LEW WELDON

0:00 - 6:00 6.00 DRLSUR 12 WOAR
 6:00 - 16:00 10.00 DRLSUR 02 P RIH TO 300' AND DRILL TO 1020' T/D PIOLET HOLE CONDITION
 HOLE 1 HR POOH
 16:00 - 0:00 8.00 DRLSUR 12 P WOAR

12/10/2007

SUPERVISOR: LEW WELDON

0:00 - 3:00 3.00 DRLSUR 12 P WAIT ON BILL JR AIR RIG
 3:00 - 12:00 9.00 DRLSUR 02 P MOVE OVER AND RIG UP AIR RIG SPUD WELL @ 0300 HR
 12/10/07 HIT TRONA WATER @ 1470' DA AT REPORT TIME
 12:00 - 19:00 7.00 DRLSUR 02 P DRILL TO 1490' AND CHARGE PUMP WENT DOWN GET A NEW
 ONE BROUGHT FROM TOWN
 19:00 - 0:00 5.00 DRLSUR 12 Z IN THE PROCESS BILL JR CREW RIDE GOT STUCK PULLING
 THE CHARGE PUMP HAD TO WAIT ON A BLADE TO PULL
 THEM OUT.

12/11/2007

SUPERVISOR: LEW WELDON

0:00 - 12:00 12.00 DRLSUR 02 P RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP WITH
 FULL RETURNS 1890'
 12:00 - 0:00 12.00 DRLSUR 02 P RIG DRILLING AHEAD CIRCULATING WITH SKID PUMP WITH
 FULL RETURNS 2130'

12/12/2007

SUPERVISOR: LEW WELDON

0:00 - 4:00 4.00 DRLSUR 02 P RIG T/D @ 2160' CONDITION HOLE 2 HR FULL RETURNS
 4:00 - 7:00 3.00 DRLSUR 05 P TRIP DP OUT OF HOLE
 7:00 - 10:30 3.50 DRLSUR 11 P RUN 2119' OF 9 5/8 CSG AND 200' OF 1" PIPE RIG DOWN AIR
 RIG

EVENT INFORMATION:	EVENT ACTIVITY: DRILLING	REASON:
	OBJECTIVE: DEVELOPMENT	DATE WELL STARTED/RESUMED:
	OBJECTIVE2:	Event End Status: COMPLETE

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PETE MARTIN DRILLING / I	11/13/2007	11/13/2007	11/13/2007	11/13/2007			11/27/2007

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
	10:30 - 12:00	1.50	DRLSUR	15		P	CEMENT 1ST STAGE WITH 200 SKS LEAD @ 11# 3.82 23 GAL/SK AND 200 SKS TAIL @ 15.8# 1.15 5.0 GAL/SK RETURNS 120 BBL INTO DISPLACEMENT NO LEAD CMT TO SURFACE
	12:00 - 12:30	0.50	DRLSUR	15		P	1ST TOP JOB 125 SKS DOWN 1" PIPE NO CMT TO SURFACE WOC
	12:30 - 14:00	1.50	DRLSUR	15		P	2ND TOP JOB 125 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE
	14:00 - 0:00	10.00	DRLSUR	12		P	NO VISIBLE LEAKS WORT

1/30/2008

SUPERVISOR: SID ARMSTRONG

0:00 - 22:00	22.00	DRLPRO	01	C	P	R/D & SKID RIG & R/U
22:00 - 0:00	2.00	DRLPRO	13	A	P	NIPPLE UP B.O.P'S

1/31/2008

SUPERVISOR: SID ARMSTRONG

0:00 - 4:00	4.00	DRLPRO	13	C	P	TEST B.O.P'S
4:00 - 15:00	11.00	DRLPRO	05	A	P	INSTALL WEAR BUSHING & P/U MOTOR & DIR TOOLS & INSPECT BHA.
15:00 - 17:00	2.00	DRLPRO	02	F	P	DRLG CEMENT & F.E EQUIPMENT & TAG CEMENT @ 1970
17:00 - 0:00	7.00	DRLPRO	02	D	P	DRLG & SURVEY F/ 2160 TO 2629 - (469' . FPH 67.0) WT 8.7/36

2/1/2008

SUPERVISOR: SID ARMSTRONG

0:00 - 10:00	10.00	DRLPRO	02	D	P	DRLG & SURVEY F/ 2629 TO 3150 - 521' @ 52.1 FPH WT 9.4 VIS 36
10:00 - 0:00	14.00	DRLPRO	07	B	Z	WORK ON MUD PUMPS (NOTE: T.O.H TO CASING SHOE)

2/2/2008

SUPERVISOR: SID ARMSTRONG

0:00 - 23:30	23.50	DRLPRO	07	B	Z	REPAIR MUD PUMPS & T.I.H & WASH TO BTM 60' (NO FILL)
23:30 - 0:00	0.50	DRLPRO	02	D	P	DRILL & SURVEY F/ 3150 TO 3170 = 20' FHP 40' W/ 9.5/ 45

2/3/2008

SUPERVISOR: SID ARMSTRONG

0:00 - 13:30	13.50	DRLPRO	02	D	P	DRILL & SURVEY F/ 3,170 TO 3,727 - 557' @ 41.2 FPH W/ 9.7 VIS 42
13:30 - 14:00	0.50	DRLPRO	06	A	P	SER RIG
14:00 - 0:00	10.00	DRLPRO	02	D	P	DRILL & SURVEY F/ 3,727 TO 4106 - 379' @ 37.9 FPH W/ 9.7 VIS 42

2/4/2008

SUPERVISOR: SID ARMSTRONG

0:00 - 14:00	14.00	DRLPRO	02	D	P	DRILL - SURVEY F/ 4106 TO 4589 - 483' @ 34.5 FPH W/ 9.9/42
14:00 - 14:30	0.50	DRLPRO	06	A	P	SER RIG
14:30 - 0:00	9.50	DRLPRO	02	D	P	DRILL - SURVEY F/ 4589 TO 4920 - 331' @ 34.8 FPH W/ 10.0 / 43

2/5/2008

SUPERVISOR: SID ARMSTRONG

0:00 - 15:00	15.00	DRLPRO	02	D	P	DRILL & SURVEY F/ 4920 TO 5393 - 473' @ 31.5 FPH W/ 10.0 PPG VIS 42
15:00 - 15:30	0.50	DRLPRO	06	A	P	SER RIG
15:30 - 0:00	8.50	DRLPRO	02	D	P	DRILL & SURVEY F/ 5393 TO 5605 - 212' @ 24.9 FPH W/ 10.1 PPG VIS 42

2/6/2008

SUPERVISOR: SID ARMSTRONG

EVENT INFORMATION:	EVENT ACTIVITY: DRILLING	REASON:
	OBJECTIVE: DEVELOPMENT	DATE WELL STARTED/RESUMED:
	OBJECTIVE2:	Event End Status: COMPLETE

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
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PETE MARTIN DRILLING / I	11/13/2007	11/13/2007	11/13/2007	11/13/2007			11/27/2007
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Date	Time Start-End	Duration (hr)	Phase	Code	Subco de	P/U	Operation
	0:00 - 15:00	15.00	DRLPRO	02	D	P	DRILL & SURVEY F/ 5605 TO 6244 - 639' @ 42.6 FPH W/ 10.1 PPG VIS 42
	15:00 - 15:30	0.50	DRLPRO	06	A	P	SER RIG
	15:30 - 0:00	8.50	DRLPRO	02	D	P	DRILL & SURVEY F/ 6244 TO 6480 - 236' @ 27.9 FPH W/ 10.2 MUD WT VIS 43

2/7/2008

SUPERVISOR: SID ARMSTRONG

0:00 - 12:00	12.00	DRLPRO	02	D	P	DRILL & SURVEY F/ 6480 TO 6753 273' @ 22.75 FPH W/ 10.2 PPG VIS42
12:00 - 20:30	8.50	DRLPRO	05	A	P	T.F.N.B & C/O MUD MOTOR & CHECK MWD TOOLS & WASH 75' TO BTM
20:30 - 0:00	3.50	DRLPRO	02	D	P	DRILL & SURVEY F/ 6753 TO 6848 - 95 @ 27.1 FPH W/ 10.3 PPG VIS 43

2/8/2008

SUPERVISOR: SID ARMSTRONG

0:00 - 15:00	15.00	DRLPRO	02	D	P	DRLG 6848-7326 = 478' = 31.9 FPH 10.6 / 45
15:00 - 15:30	0.50	DRLPRO	06	A	P	RIG SERVICE
15:30 - 0:00	8.50	DRLPRO	02	D	P	DRLG 7326-7531= 206' = 24.3 FPH, MW 11.2 / 43

2/9/2008

SUPERVISOR: SID ARMSTRONG

0:00 - 1:00	1.00	DRLPRO	02	D	P	DRILL & SURVEY F/ 7531 TO 7581 - 50' @ 50.0 FPH W/ 11.2 PPG VIS 42
1:00 - 3:30	2.50	DRLPRO	04	A	P	CIRC & WORK ON MWD TOOLS
3:30 - 8:30	5.00	DRLPRO	05	I	P	T.O.H F/ MWD TO 3,700 FT GOT MWD COMPUTER SINGAL F/ TOOLS RECORRELATED TOOLS & T.I.H & CHECK TOOLD EVERY 500' TO BTM.
8:30 - 14:30	6.00	DRLPRO	02	D	P	DRILL & SURVEY F/ 7581 TO 7771 - 190' @ 31.6 FPH W/ 11.2 PPG VIS 42
14:30 - 15:00	0.50	DRLPRO	06	A	P	SER RIG
15:00 - 0:00	9.00	DRLPRO	02	D	P	DRILL & SURVEY F/ 7771 TO 8010 - 210 @ 26.5 FPH W/ 11.4 PPG VIS 42

2/10/2008

SUPERVISOR: SID ARMSTRONG

0:00 - 15:30	15.50	DRLPRO	02	D	P	DRILL & SURVEY F/ 8010 TO 8409 - 339' @ 25.7 FPH W/ 11.4 PPG VIS43
15:30 - 16:00	0.50	DRLPRO	06	A	P	SER RIG
16:00 - 18:00	2.00	DRLPRO	02	D	P	DRILL & SURVEY F/ 8409 TO 8441 - 32' @ 16.0 FPH W/ 11.4 PPG VIS 43
18:00 - 18:30	0.50	DRLPRO	07	A	Z	REPAIR RIG #2 CLUTCH FLOOR MOTOR
18:30 - 23:30	5.00	DRLPRO	02	D	P	DRILL & SURVEY F/ 8441 TO 8560 - 119' @ 23.8 FPH W/ 11.4 VIS 43
23:30 - 0:00	0.50	DRLPRO	04	C	P	CIRC & COND F/ SHORT TRIP

2/11/2008

SUPERVISOR: SID ARMSTRONG

0:00 - 0:30	0.50	DRLPRO	04	A	P	CIRC BTM UP
0:30 - 4:00	3.50	DRLPRO	05	E	P	SHORT TRIP 30 STANDS
4:00 - 5:00	1.00	DRLPRO	04	A	P	CIRC BTM UP
5:00 - 10:00	5.00	DRLPRO	05	B	P	T.O.H F/ LOGS
10:00 - 17:00	7.00	DRLPRO	08	F	P	R/U BAKER ATLAS WIRELINE & RUN TRIPLE COMBO LOGGERS DEPTH @ 8,554 (BAKER LATE 1 HR GETTING TO LOC.)
17:00 - 18:00	1.00	DRLPRO	05	A	P	T.I.H TO CASING SHOE
18:00 - 19:30	1.50	DRLPRO	06	D	P	SLIP & CUT DRLG LINE

EVENT INFORMATION:	EVENT ACTIVITY: DRILLING	REASON:
	OBJECTIVE: DEVELOPMENT	DATE WELL STARTED/RESUMED:
	OBJECTIVE2:	Event End Status: COMPLETE

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PETE MARTIN DRILLING / I	11/13/2007	11/13/2007	11/13/2007	11/13/2007			11/27/2007

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
	19:30 - 23:30	4.00	DRLPRO	05	A	P	CONT. T.I.H & WASH 90' TO BTM
	23:30 - 0:00	0.50	DRLPRO	04	A	P	CIRC BTM UP

2/12/2008

SUPERVISOR: SID ARMSTRONG

0:00 - 1:30	1.50	DRLPRO	04	A	P	CIRC & COND
1:30 - 11:00	9.50	DRLPRO	05	A	P	L/D D.P. & RACK BACK BHA.
11:00 - 18:30	7.50	DRLPRO	11	A	P	R/U CASING CREW & RUN 4 1/2 PROD. STRING
18:30 - 20:30	2.00	DRLPRO	04	A	P	R/U CEMENT HEAD & CIRC BTM UP
20:30 - 23:00	2.50	DRLPRO	15	A	P	HELD SAFETY METTING & R/U BJ & TESTED LINES 4500 PSI & PUMPED 20 BBLS MUD CLEAN & F/ SCAV CMT 20 SKS - 9.5 PPG W/ YIELD 8.45 & F/ LEAD 310 SKS - 11.0 PPG W/ YIELD 3.38 F/ TAIL 1250 SKS - 14.3 W/ YIELD 1.31 & DROP PLUG & DISPLACED W/ 132.2 BBLS WATER BUMP PLUG W/ 500 OVER FINAL CIRC OF 2594 & PLUG HELD & GOT BACK 22.0 BBLS LEAD CMT TO PIT.
23:00 - 0:00	1.00	DRLPRO	13	A	P	NIPPLE DOWN B.O.P'S & SET SLIPS W/ 75 STRING WT & CUT 4 1/2 CASING OFF.

2/13/2008

SUPERVISOR: SID ARMSTRONG

0:00 - 1:00	1.00	DRLPRO	13	A	P	FINISH NIPPLE DOWN
1:00 - 5:00	4.00	DRLPRO	01	E	P	WASH & CLEAN OUT MUD TANKS
5:00 - 0:00	19.00	DRLPRO	01	E	P	R/D RIG PREPAIR F/ SKID & RELEASED RIG @ 05:00 O'CLOCK ON 2/13/2008

WINS No.: 95378

NBU 1022-130-1CS

Start Date: 5/5/2008

AFE No.: 2008169

Operation Summary Report

End Date:

Operator	FIELD NAME	SPUD DATE	GL	KB	ROUTE
KERR-MCGEE OIL & GAS ONSHORE LP	NATURAL BUTTES	11/13/07	5,293	5310	
API	STATE	COUNTY	DIVISION		
4304739476	UTAH	UINTAH	ROCKIES		
Lat/Long.: Lat./Long.: 39.94644 / -109.39151		Q-Q/Sect/Town/Range: / 13 / 10S / 22E		Footages: 1,747.00' FSL 1,705.00' FWL	
MTD	TVD	LOG MD	PBMD	PBTVD	
8508	8089				

EVENT INFORMATION: EVENT ACTIVITY: COMPLETION REASON: WHR PAD#1 - MV
 OBJECTIVE: DEVELOPMENT DATE WELL STARTED/RESUMED:
 OBJECTIVE2: ORIGINAL Event End Status:

RIG OPERATIONS: Begin Mobilization Rig On Location Rig Charges Rig Operation Start Finish Drilling Rig Release Rig Off Location

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
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5/5/2008

SUPERVISOR: DOUG CHIVERS

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
5/5/2008	7:00 - 7:30	0.50	COMP	48		P	HSM. FRACING & PERFORATING
	7:30 - 18:00	10.50	COMP	36	B	P	<p>RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. PERFORATE 8,363' - 69' 4 SPF, 8,286' - 88' 4 SPF, 8,240' - 43' 3 SPF, 41 HOLES.</p> <p>PRIME UP PUMPS & LINES. PRESSURE TEST SURFACE EQUIPMENT TO 8,500 PSI.</p> <p>STG 1) WHP 20 PSI, BRK 3,434 PSI, @ 2.6 BPM, ISIP 2,547 PSI, FG .75.</p> <p>PUMP 100 BBLS @ 50.1 BPM @ 4,500 PSI = 31 OF 41 HOLES OPEN 76%.</p> <p>MP 5,744 PSI, MR 51.7 BPM, AP 4,239 PSI, AR 50 BPM, ISIP 2,715 PSI, FG .77 NPI 168 PSI.</p> <p>PMP 1,244 BBLS SW & 36,349 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 41,349 LBS.</p> <p>STG 2) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. SET BAKER 8K CBP @ 8,133' & PERFORATE 8,100' - 03' 4 SPF, 8,055' - 62' 4 SPF 40 HOLES.</p> <p>WHP 100 PSI, BRK 3,222 PSI, @ 3.3 BPM, ISIP 2,388 PSI, FG .74.</p> <p>PUMP 100 BBLS @ 50 BPM @ 5,300 PSI = 25 OF 41 HOLES OPEN 62%.</p> <p>MP 5,385 PSI, MR 50.3 BPM, AP 4,691 PSI, AR 50 BPM, ISIP 2,725 PSI, FG .78 NPI 337 PSI.</p> <p>PMP 798 BBLS OF SLK WATER & 20,487 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 25,487 LBS.</p> <p>STG 3) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. SET BAKER 8K CBP @ 7,852' & PERFORATE 7,812' - 22' 4 SPF, 40 HOLES.</p> <p>WHP 0 PSI, BRK 3,492 PSI, @ 3.0 BPM, ISIP 2,727 PSI, FG .75.</p> <p>PUMP 100 BBLS @ 50.2 BPM @ 5,000 PSI = 27 OF 40 HOLES OPEN 68%.</p> <p>MP 5,174 PSI, MR 50.3 BPM, AP 4,682 PSI, AR 50 BPM, ISIP 2,727 PSI, FG .79 NPI 269 PSI.</p> <p>PMP 680 BBLS OF SLK WATER & 15,790 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 20,790 LBS.</p> <p>STG 4) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. SET BAKER 8K CBP @ 7,658' & PERFORATE 7,623' - 28' 4 SPF, 20 HOLES.</p> <p>PUMP A DFIT. WHP 0 PSI, BRK 3444 PSI @ 5.2 BPM, PUMP 24 BBLS. STABILIZED PRESSURE 2,170 PSI @ 5.8 BPM, ISIP 1,952 FG .69</p> <p>SWI SDFN</p>

EVENT INFORMATION: EVENT ACTIVITY: COMPLETION
OBJECTIVE: DEVELOPMENT
OBJECTIVE2: ORIGINAL

REASON: WHR PAD#1 - MV
DATE WELL STARTED/RESUMED:
Event End Status:

RIG OPERATIONS: Begin Mobilization Rig On Location Rig Charges Rig Operation Start Finish Drilling Rig Release Rig Off Location

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
5/6/2008							
SUPERVISOR: DOUG CHIVERS							
	7:00 - 7:30	0.50	COMP	48		P	HSM. FRACING & PERFORATING
	7:30 - 17:00	9.50	COMP	36	B	P	STG 4) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 120 DEG PHASING. PERFORATE 7,623' - 28' 4 SPF, 7,588' - 92' 3 SPF, 7,535' - 37' 3 SPF, 38 HOLES. WHP 1,120 PSI, BRK 2,614 PSI, @ 4.9 BPM, ISIP 1,952 PSI, FG .76. PUMP 100 BBLS @ 50.4 BPM @ 4,000 PSI = 30 OF 48 HOLES OPEN 78%. MP 5,742 PSI, MR 50.6 BPM, AP 4,314 PSI, AR 50.3 BPM, ISIP 2,565 PSI, FG .78 NPI 613 PSI. PMP 2,626 BBLS OF SLK WATER & 93,692 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 98,692 LBS.
							STG 5) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 120 & 180 DEG PHASING. SET BAKER 8K CBP @ 7,491' & PERFORATE 7,458' - 61' 4 SPF, 7,446' - 50' 4 SPF, 7,424' - 26' 3 SPF, 7,398' - 02' 2 SPF, 42 HOLES. WHP 800 PSI, BRK 3133 PSI, @ 2.9 BPM, ISIP 1698 PSI, FG .67. PUMP 100 BBLS @ 50.5 BPM @ 4,300 PSI = 42 OF 42 HOLES OPEN 100%. MP 4565 PSI, MR 50.8 BPM, AP 4139 PSI, AR 50 BPM, ISIP 2,829 PSI, FG .81 NPI 215 PSI. PMP 2,662 BBLS OF SLK WATER & 94,085 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 99,085 LBS.
							STG 6) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 120 & 180 DEG PHASING. SET BAKER 8K CBP @ 7,326' & PERFORATE 7,290' - 96' 4 SPF, 7,176' - 79' 3 SPF, 7,158' - 61' 2 SPF, 39 HOLES. WHP 2,015 PSI, BRK 2,644 PSI, @ 2.9 BPM, ISIP 2,099 PSI, FG .73. PUMP 100 BBLS @ 50 BPM @ 4,250 PSI = 29 OF 39 HOLES OPEN 74%. MP 4,748 PSI, MR 50.3 BPM, AP 4,189 PSI, AR 49.9 BPM, ISIP 2,270 PSI, FG .76 NPI 171 PSI. PMP 3,666 BBLS OF SLK WATER & 133,096 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 138,096 LBS. SWI SDFN
5/7/2008							
SUPERVISOR: DOUG CHIVERS							
	7:00 - 7:30	0.50	COMP	48		P	HSM. FRACING & PERFORATING
	7:30 - 10:00	2.50	COMP	36	B	P	STG 7) PU 4 1/2" CBP & RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 120 DEG PHASING. SET BAKER 8K CBP @ 7,079' & PERFORATE 7,042' - 49' 3 SPF, 7,022' - 29' 3 SPF, 42 HOLES. WHP 330 PSI, BRK 2,704 PSI, @ 1.0 BPM, ISIP 1,934 PSI, FG .71. PUMP 100 BBLS @ 50 BPM @ 3,800 PSI = 33 OF 42 HOLES OPEN 79%. MP 4,647 PSI, MR 50.3 BPM, AP 3,800 PSI, AR 49.9 BPM, ISIP 2,373 PSI, FG .78 NPI 439 PSI. PMP 2,482 BBLS OF SLK WATER & 87,070 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SND. TOTAL PROP 92,070 LBS.
							KILL PLG) PU & RIH W/ 4 1/2" 8K BAKER CBP & SET @ 6,972' STIM COMPLETE SWI. WAIT ON DRILL OUT
5/15/2008							
SUPERVISOR: DOUG CHIVERS							
	7:00 - 7:30	0.50	COMP	48		P	DAY 4 - JSA & SM #4

EVENT INFORMATION: EVENT ACTIVITY: COMPLETION
 OBJECTIVE: DEVELOPMENT
 OBJECTIVE2: ORIGINAL

REASON: WHR PAD#1 - MV
 DATE WELL STARTED/RESUMED: 1
 Event End Status:

RIG OPERATIONS: Begin Mobilization Rig On Location Rig Charges Rig Operation Start Finish Drilling Rig Release Rig Off Location

Date	Time Start-End	Duration (hr)	Phase	Code	Subco de	P/U	Operation
	7:30 - 7:30	0.00	COMP	30	A	P	<p>RDMO NBU 1022-13'O'-4S. MIRU ON NBU 1022-13'O'-1CS. SPOT EQUIP. & RU RIG. OPEN WELL, 0 PSI. ND FRAC VALVES, NUBOP. R/U FLOOR & TBG EQUIP. PREP & TALLY TBG.</p> <p>P/U 3 7/8" BIT, POBS & XN NIPPLE. RIH ON NEW 2 3/8" L80 TBG. TAG FILL @ 6940'. R/U PWR SWVL & PMP. P.T. BOP TO 3000 PSI. EST. CIRC. W/2% KCL WTR. C/O 30' OF SND.</p> <p>CBP #1) DRLG OUT BAKER 8K CBP @ 6970' IN 8 MIN. 200 LBS DIFF. PSI. RIH, TAG SND @ 7049'. C/O 30' OF SND. FCP = 100 PSI.</p> <p>CBP #2) DRLG OUT BAKER 8K CBP @ 7079' IN 8 MIN. 300 LBS DIFF. PSI. RIH, TAG SND @ 7296'. C/O 30' OF SND. FCP = 175 PSI.</p> <p>CBP #3) DRLG OUT BAKER 8K CBP @ 7326' IN 10 MIN. 200 LBS DIFF. PSI. RIH, TAG SND @ 7461'. C/O 30' OF SND. FCP = 200 PSI.</p> <p>CBP #4) DRLG OUT BAKER 8K CBP @ 7491' IN 8 MIN. 200 LBS DIFF. PSI. RIH, TAG SND @ 7628'. C/O 30' OF SND. FCP = 250 PSI.</p> <p>CBP #5) DRLG OUT BAKER 8K CBP @ 7658' IN 8 MIN. 200 LBS DIFF. PSI. RIH, TAG SND @ 7822'. C/O 30' OF SND. FCP = 350 PSI.</p> <p>CBP #6) DRLG OUT BAKER 8K CBP @ 7852' IN 10 MIN. 200 LBS DIFF. PSI. RIH, TAG SND @ 8103'. C/O 30' OF SND. FCP = 350 PSI.</p> <p>CBP #7) DRLG OUT BAKER 8K CBP @ 8133' IN 8 MIN. 200 LBS DIFF. PSI. RIH, TAG SND @ 8451'. C/O 32' OF SND. FCP = 400 PSI.</p> <p>POOH & L/D 15 JTS TBG ON FLOAT, (25 JTS TOTAL). LAND TBG ON HANGER W/254 JTS NEW 2 3/8" L80 TBG. EOT @ 7993.71' + POBS & XN NIPPLE @ 8013.74'.</p> <p>R/D FLOOR & TBG EQUIP. NDBOP. DROP BALL, NUWH. PMP OFF BIT @ 1200 PSI. WAIT 30 MIN. FOR BIT TO FALL TO BTM.</p> <p>18:30 TURN WELL OVER TO FBC. SICP = 12500 PSI. FTP = 000 PSI. 12778 BBLS LTR.</p> <p>18:30 SDFN - PREP TO RDMO IN AM.</p>

5/17/2008

SUPERVISOR: DOUG CHIVERS

14:00 -

PROD

TURN WELL TO SALES @ 1400 HR ON 5/17/2008 - FTP 1200#, CP 3000#, CK 20/64", 130 MCFD, 960 BWPD

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		7. UNIT or CA AGREEMENT NAME UNIT #891008900A
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078		8. WELL NAME and NUMBER: NBU 1022-1301CS
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1747'FSL, 1705'FWL AT TOP PRODUCING INTERVAL REPORTED BELOW: AT TOTAL DEPTH: 775'FSL, 1920'FEL (SW/SE) 797 fsl 1879 fel		9. API NUMBER: 4304739476
14. DATE SPURRED: 11/13/2007		10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES
15. DATE T.D. REACHED: 2/10/2008		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 13 10S 22E
16. DATE COMPLETED: 5/16/2008		12. COUNTY UINTAH
17. ELEVATIONS (DF, RKB, RT, GL): 5292'GL		13. STATE UTAH
18. TOTAL DEPTH: MD 8,560 TVD 8,141		19. PLUG BACK T.D.: MD 8,519 TVD 8,100
20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) CBL-CCL-GR, Comp 2, CD, CN, Cal, HDI, BPL		23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 J-55	36#		2,160		650			
7 7/8"	4 1/2 I-80	11.6#		8,560		1560			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	7,994							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) MESAVERDE	7,022	8,369			7,022 8,369	0.36	283	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) WSMVD								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7022'-8369'	PMP 14,158 BBLS SLICK H2O & 515,569# 30/50 SD

29. ENCLOSED ATTACHMENTS:

- ☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☒ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: _____

30. WELL STATUS:

PROD

RECEIVED

JUN 18 2008
DIV. OF OIL, GAS & MINING

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 5/16/2008		TEST DATE: 5/28/2008		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 0		GAS – MCF: 1,378		WATER – BBL: 408		PROD. METHOD: FLOWING							
CHOKE SIZE: 24/64		TBG. PRESS. 775		CSG. PRESS. 1,350		API GRAVITY		BTU – GAS		GAS/OIL RATIO		24 HR PRODUCTION RATES: →		OIL – BBL: 0		GAS – MCF: 1,378		WATER – BBL: 408		INTERVAL STATUS: PROD	

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
WASATCH MESAVERDE	4,144 6,513	6,513			

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE

DATE 6/16/2008

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340
Fax: 801-359-3940



Weatherford[®]

Drilling Services

Completion



ANADARKO - KERR McGEE

NBU#1022-1301CS

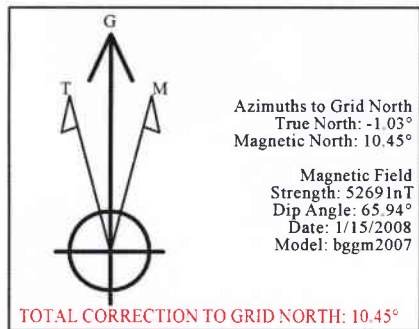
UINTAH COUNTY, UTAH

WELL FILE: 4013598C

DATE: FEBRUARY 14, 2008

Weatherford International, Ltd.

15710 John F. Kennedy Blvd
Houston, Texas 77032 USA
+1.281.260.1300 Main
+1.281.260.4730 Fax
www.weatherford.com






WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Well #1301CS	0.00	0.00	14510600.00	2091358.20	39°56'47.113N	109°23'28.047W	N/A

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	
PBHL	8130.00	-929.26	1690.97	14509670.74	2093049.17	Circle (Radius: 100)	

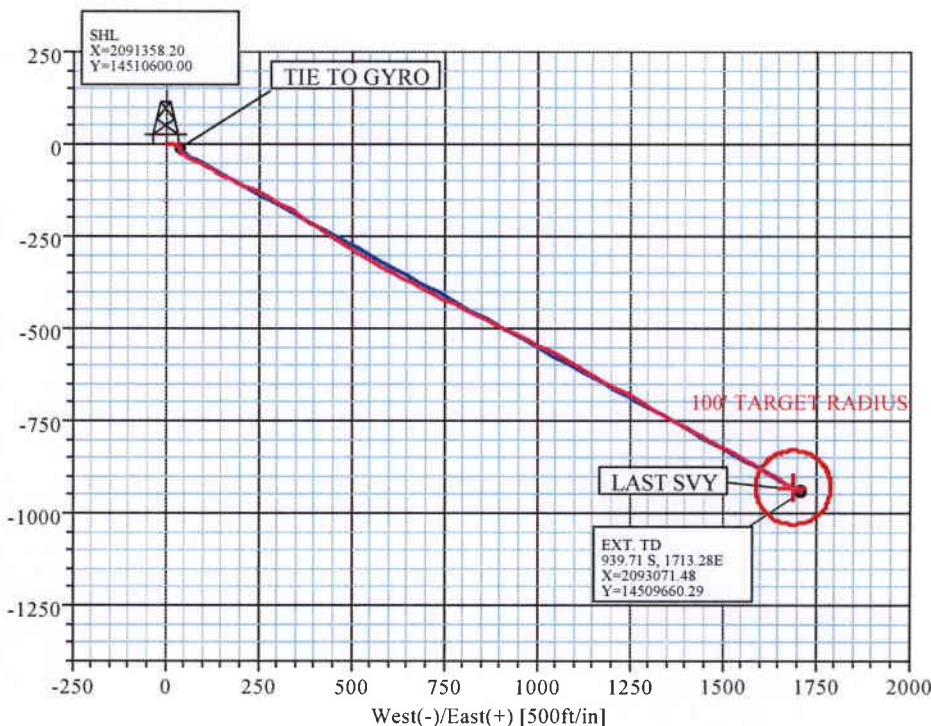
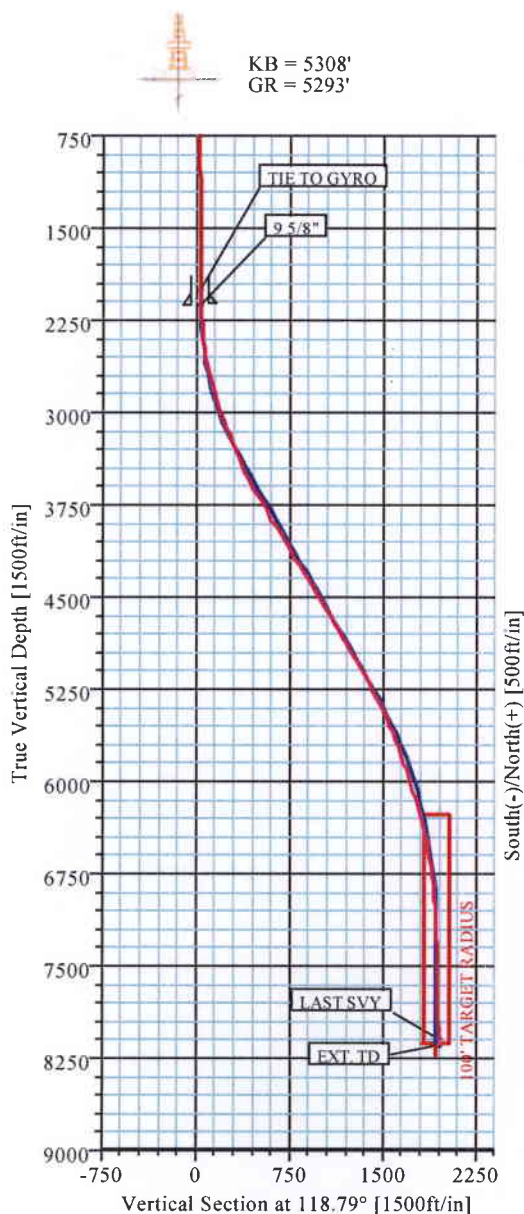
FORMATION TOP DETAILS				
No.	TVDPATH	MDPATH	FORMATION	
1	3963.00	4093.58	WASATCH	
2	6186.00	6590.50	MESAVERDE	

FIELD DETAILS	
UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	
Geodetic System: Universal Transverse Mercator (USfeet)	
Ellipsoid: NAD27 (Clarke 1866)	
Zone: UTM Zone 12, North 114W to 108W	
Magnetic Model: bggm2007	
System Datum: Mean Sea Level	
Local North: Grid North	

CASING DETAILS				
No.	TVD	MD	Name	Size
1	2118.08	2119.00	9 5/8"	9.62

LEGEND	
	Well #1301CS, 1, GYRO SVY
	Well #1301CS, 1, Plan #2
	WFT SVY

Last Survey & Ext to TD: WFT SVY (Well #1301CS/1)										
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
LAST	8508.00	1.25	112.52	8088.67	-939.28	1712.24	0.23	134.14	1952.94	
TD	8560.00	1.25	112.52	8140.66	-939.71	1713.28	0.00	0.00	1954.07	



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SURVEY REPORT - GEOGRAPHIC

Company: Anadarko-Kerr-McGee Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27) Site: NBU 1022-13O1CS Well: Well #13O1CS Wellpath: 1	Date: 2/14/2008 Time: 14:46:34 Page: 1 Co-ordinate(NE) Reference: Site: NBU 1022-13O1CS, Grid North Vertical (TVD) Reference: SITE 5308.0 Section (VS) Reference: Well (0.00N,0.00E,118.79Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: WFT SVY Company: WEATHERFORD DRILLING SERVICES Tool: MWD;MWD - Standard	Start Date: 2/4/2008 Engineer: RUSSELL JOYNER Tied-to: From: GYRO SVY
--	--

Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	
Map System: Universal Transverse Mercator (USfeet) Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level	Map Zone: UTM Zone 12, North 114W to 108W Coordinate System: Site Centre Geomagnetic Model: bggm2007

Site: NBU 1022-13O1CS	
Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 5293.00 ft	Northing: 14510600.00 ft Easting: 2091358.20 ft Latitude: 39 56 47.113 N Longitude: 109 23 28.047 W North Reference: Grid Grid Convergence: 1.03 deg

Well: Well #13O1CS Well Position: +N/-S 0.00 ft Position Uncertainty: 0.00 ft	Slot Name: Well Position: +N/-S 0.00 ft Position Uncertainty: 0.00 ft
--	--

Wellpath: 1 Current Datum: SITE Magnetic Data: 1/15/2008 Field Strength: 52691 nT Vertical Section: Depth From (TVD) ft	Height 5308.00 ft +N/-S ft	Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 11.48 deg Mag Dip Angle: 65.94 deg +E/-W ft Direction deg
0.00	0.00	0.00 118.79

Survey										
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	
2000.00	2.00	182.86	1999.16	-9.05	37.37	0.00	37.11	14510590.95	2091395.57	TIE TO GYRO
2166.00	2.38	173.51	2165.04	-15.36	37.61	0.31	40.36	14510584.64	2091395.81	
2225.00	2.50	174.98	2223.99	-17.86	37.86	0.23	41.79	14510582.14	2091396.06	
2287.00	2.81	152.98	2285.92	-20.56	38.67	1.71	43.80	14510579.44	2091396.87	
2348.00	4.31	128.61	2346.81	-23.33	41.14	3.44	47.29	14510576.67	2091399.34	
2410.00	6.81	120.73	2408.51	-26.66	46.13	4.21	53.26	14510573.34	2091404.33	
2472.00	8.38	119.86	2469.97	-30.79	53.20	2.54	61.45	14510569.21	2091411.40	
2533.00	10.50	117.61	2530.14	-35.58	61.98	3.53	71.46	14510564.42	2091420.18	
2595.00	11.63	116.11	2590.98	-40.95	72.60	1.88	83.35	14510559.05	2091430.80	
2657.00	13.00	114.61	2651.56	-46.60	84.56	2.27	96.55	14510553.40	2091442.76	
2719.00	14.44	115.36	2711.78	-52.82	97.88	2.34	111.22	14510547.18	2091456.08	
2780.00	15.13	120.98	2770.77	-60.17	111.58	2.61	126.77	14510539.83	2091469.78	
2842.00	15.56	121.48	2830.56	-68.68	125.61	0.73	143.16	14510531.32	2091483.81	
2904.00	16.75	120.23	2890.11	-77.52	140.42	2.00	160.40	14510522.48	2091498.62	
2965.00	18.00	118.48	2948.32	-86.44	156.30	2.22	178.61	14510513.56	2091514.50	
3026.00	19.13	117.73	3006.15	-95.59	173.43	1.89	198.03	14510504.41	2091531.63	
3088.00	20.44	113.48	3064.49	-104.63	192.36	3.14	218.97	14510495.37	2091550.56	
3150.00	20.94	112.36	3122.49	-113.16	212.53	1.03	240.76	14510486.84	2091570.73	
3210.00	22.38	112.11	3178.25	-121.53	233.03	2.40	262.76	14510478.47	2091591.23	
3272.00	22.63	116.61	3235.54	-131.32	254.63	2.81	286.40	14510468.68	2091612.83	
3334.00	21.94	120.61	3292.91	-142.56	275.27	2.69	309.90	14510457.44	2091633.47	
3428.00	22.44	119.73	3379.95	-160.40	305.96	0.64	345.39	14510439.60	2091664.16	
3521.00	25.31	118.86	3464.98	-178.80	338.79	3.11	383.03	14510421.20	2091696.99	
3614.00	26.19	125.86	3548.76	-200.43	372.84	3.40	423.28	14510399.57	2091731.04	

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SURVEY REPORT - GEOGRAPHIC

Company: Anadarko-Kerr-McGee Field: Uintah County, Utah (UTM Zone 12N-NAD 27) Site: NBU 1022-1301CS Well: Well #1301CS Wellpath: 1	Date: 2/14/2008 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 14:46:34 Site: NBU 1022-1301CS, Grid North SITE: 5308.0 Well (0.00N,0.00E,118.79Azi): Minimum Curvature	Page: 2 Db: Sybase
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Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft
3706.00	28.38	122.86	3630.53	-224.19	407.67	2.81	465.25	14510375.81	2091765.87
3799.00	33.39	125.69	3710.32	-251.13	447.05	5.61	512.73	14510348.87	2091805.25
3891.00	29.44	120.48	3788.83	-277.38	487.12	5.21	560.49	14510322.62	2091845.32
3982.00	30.75	118.48	3867.56	-299.82	526.84	1.81	606.11	14510300.18	2091885.04
4044.00	31.56	119.73	3920.62	-315.42	554.86	1.67	638.18	14510284.58	2091913.06
4106.00	30.81	119.73	3973.66	-331.34	582.74	1.21	670.28	14510268.66	2091940.94
4167.00	30.31	119.23	4026.19	-346.61	609.74	0.92	701.30	14510253.39	2091967.94
4229.00	30.13	118.86	4079.76	-361.76	637.02	0.42	732.50	14510238.24	2091995.22
4291.00	29.81	117.98	4133.47	-376.50	664.26	0.88	763.47	14510223.50	2092022.46
4351.00	30.44	116.73	4185.37	-390.33	691.00	1.48	793.57	14510209.67	2092049.20
4414.00	31.88	116.48	4239.28	-404.93	720.15	2.29	826.15	14510195.07	2092078.35
4476.00	31.25	115.98	4292.11	-419.27	749.26	1.10	858.57	14510180.73	2092107.46
4537.00	30.82	116.38	4344.37	-433.15	777.49	0.78	889.99	14510166.85	2092135.69
4598.00	30.13	116.23	4396.95	-446.86	805.22	1.14	920.89	14510153.14	2092163.42
4660.00	30.75	115.86	4450.40	-460.65	833.44	1.04	952.27	14510139.35	2092191.64
4721.00	30.94	116.23	4502.77	-474.38	861.54	0.44	983.51	14510125.62	2092219.74
4784.00	30.63	115.98	4556.90	-488.57	890.49	0.53	1015.72	14510111.43	2092248.69
4846.00	30.00	116.11	4610.42	-502.31	918.61	1.02	1046.98	14510097.69	2092276.81
4908.00	30.63	115.98	4663.94	-516.05	946.73	1.02	1078.23	14510083.95	2092304.93
4970.00	30.06	116.23	4717.45	-529.83	974.86	0.94	1109.52	14510070.17	2092333.06
5032.00	31.38	117.36	4770.74	-544.12	1003.12	2.32	1141.17	14510055.88	2092361.32
5093.00	31.00	118.11	4822.93	-558.82	1031.08	0.89	1172.76	14510041.18	2092389.28
5156.00	30.13	118.73	4877.17	-574.06	1059.26	1.47	1204.79	14510025.94	2092417.46
5218.00	29.38	118.86	4931.00	-588.88	1086.22	1.21	1235.56	14510011.12	2092444.42
5280.00	29.50	118.73	4984.99	-603.56	1112.93	0.22	1266.04	14509996.44	2092471.13
5341.00	29.69	119.73	5038.03	-618.27	1139.22	0.87	1296.16	14509981.73	2092497.42
5403.00	29.40	120.24	5091.97	-633.55	1165.70	0.62	1326.73	14509966.45	2092523.90
5465.00	30.38	119.48	5145.73	-648.93	1192.50	1.69	1357.62	14509951.07	2092550.70
5527.00	29.75	119.73	5199.38	-664.27	1219.50	1.04	1388.68	14509935.73	2092577.70
5588.00	28.69	119.98	5252.62	-679.10	1245.33	1.75	1418.45	14509920.90	2092603.53
5651.00	27.06	119.86	5308.31	-693.79	1270.86	2.59	1447.90	14509906.21	2092629.06
5715.00	25.88	119.36	5365.60	-707.89	1295.66	1.88	1476.42	14509892.11	2092653.86
5779.00	25.19	119.36	5423.35	-721.41	1319.70	1.08	1504.01	14509878.59	2092677.90
5842.00	24.38	119.11	5480.54	-734.31	1342.75	1.30	1530.41	14509865.69	2092700.95
5906.00	23.13	119.36	5539.12	-746.90	1365.24	1.96	1556.19	14509853.10	2092723.44
5969.00	21.94	119.63	5597.31	-758.79	1386.26	1.90	1580.34	14509841.21	2092744.46
6033.00	21.06	119.36	5656.85	-770.34	1406.67	1.38	1603.79	14509829.66	2092764.87
6096.00	20.31	119.11	5715.79	-781.21	1426.09	1.20	1626.04	14509818.79	2092784.29
6160.00	19.31	118.48	5776.00	-791.66	1445.10	1.60	1647.73	14509808.34	2092803.30
6224.00	18.56	118.48	5836.54	-801.56	1463.35	1.17	1668.50	14509798.44	2092821.55
6288.00	18.06	118.36	5897.30	-811.13	1481.04	0.78	1688.61	14509788.87	2092839.24
6351.00	17.75	118.48	5957.25	-820.35	1498.07	0.50	1707.97	14509779.65	2092856.27
6414.00	17.50	118.73	6017.29	-829.48	1514.82	0.41	1727.05	14509770.52	2092873.02
6478.00	17.31	118.61	6078.36	-838.66	1531.61	0.30	1746.19	14509761.34	2092889.81
6542.00	16.88	119.11	6139.53	-847.74	1548.09	0.71	1765.01	14509752.26	2092906.29
6606.00	16.25	119.61	6200.88	-856.69	1563.99	1.01	1783.25	14509743.31	2092922.19
6669.00	15.25	120.48	6261.51	-865.25	1578.80	1.63	1800.35	14509734.75	2092937.00
6733.00	14.69	121.36	6323.34	-873.74	1592.98	0.94	1816.87	14509726.26	2092951.18
6796.00	13.69	119.48	6384.42	-881.56	1606.29	1.75	1832.30	14509718.44	2092964.49
6860.00	12.56	118.98	6446.74	-888.66	1618.97	1.77	1846.83	14509711.34	2092977.17
6924.00	11.19	116.48	6509.37	-894.80	1630.62	2.29	1860.00	14509705.20	2092988.82
6987.00	10.00	120.90	6571.30	-900.34	1640.79	2.29	1871.57	14509699.66	2092998.99

Weatherford

SURVEY REPORT - GEOGRAPHIC

Company: Anadarko-Kerr-McGee	Date: 2/14/2008	Time: 14:46:34	Page: 3
Field: UINTAH COUNTY, UTAH (UTM Zone 12N-NAD 27)	Co-ordinate(NE) Reference:	Site: NBU 1022-1301CS, Grid North	
Site: NBU 1022-1301CS	Vertical (TVD) Reference:	SITE 5308.0	
Well: Well #1301CS	Section (VS) Reference:	Well (0.00N,0.00E,118.79Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comme
7051.00	9.38	124.36	6634.39	-906.14	1649.86	1.33	1882.32	14509693.86	2093008.06	
7115.00	7.56	120.73	6697.69	-911.23	1657.79	2.96	1891.72	14509688.77	2093015.99	
7169.00	6.75	122.11	6751.26	-914.73	1663.53	1.53	1898.44	14509685.27	2093021.73	
7242.00	5.69	128.23	6823.83	-919.25	1670.00	1.71	1906.29	14509680.75	2093028.20	
7306.00	4.56	125.86	6887.58	-922.71	1674.56	1.80	1911.94	14509677.29	2093032.76	
7370.00	3.56	125.23	6951.42	-925.34	1678.24	1.56	1916.44	14509674.66	2093036.44	
7433.00	3.31	115.11	7014.30	-927.24	1681.49	1.04	1920.20	14509672.76	2093039.69	
7498.00	3.13	107.73	7079.20	-928.58	1684.88	0.69	1923.82	14509671.42	2093043.08	
7560.00	3.56	116.36	7141.10	-929.95	1688.21	1.07	1927.40	14509670.05	2093046.41	
7624.00	3.13	138.98	7204.99	-932.15	1691.14	2.15	1931.03	14509667.85	2093049.34	
7687.00	2.44	121.73	7267.92	-934.15	1693.41	1.71	1933.98	14509665.85	2093051.61	
7751.00	1.44	97.98	7331.88	-934.98	1695.37	1.97	1936.09	14509665.02	2093053.57	
7847.00	1.25	88.73	7427.85	-935.13	1697.61	0.30	1938.12	14509664.87	2093055.81	
7942.00	1.50	92.86	7522.83	-935.17	1699.89	0.28	1940.14	14509664.83	2093058.09	
8038.00	1.31	95.11	7618.80	-935.33	1702.23	0.21	1942.28	14509664.67	2093060.43	
8123.00	1.38	109.98	7703.77	-935.76	1704.16	0.42	1944.18	14509664.24	2093062.36	
8229.00	1.38	114.86	7809.74	-936.74	1706.52	0.11	1946.71	14509663.26	2093064.72	
8325.00	1.19	122.98	7905.72	-937.76	1708.41	0.27	1948.86	14509662.24	2093066.61	
8421.00	1.38	105.98	8001.70	-938.62	1710.35	0.44	1950.98	14509661.38	2093068.55	
8508.00	1.25	112.52	8088.67	-939.28	1712.24	0.23	1952.94	14509660.72	2093070.44	LAST SVY
8560.00	1.25	112.52	8140.66	-939.71	1713.28	0.00	1954.07	14509660.29	2093071.48	EXT. TD

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
	0.00	GREEN RIVER		0.00	0.00
4093.58	3963.00	WASATCH		0.00	0.00
6590.50	6186.00	MESAVERDE		0.00	0.00

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 1022-1301CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1747 FSL 1705 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 13 Township: 10.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047394760000
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/9/2009	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: _____	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THIS WELL RETURNED TO PRODUCTION ON 11/09/2009.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 07, 2009		
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 12/3/2009	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: STUO-08512-ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 1022-13O1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1747 FSL 1705 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 13 Township: 10.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047394760000
5. FIELD and POOL or WILDCAT: NATURAL BUTTES		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/24/2012 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator requests authorization to recomplete the subject well. The operator requests approval to recomplete the Wasatch formation and commingle with the existing Mesaverde formation. Please see the attached procedure. Thank you.		
NAME (PLEASE PRINT) Jaime Scharnowske		PHONE NUMBER 720 929-6304
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 1/24/2012		DATE: February 02, 2012 By: <u>Derek Duff</u>

Greater Natural Buttes Unit



NBU 1022-1301CS
RE-COMPLETIONS PROCEDURE

DATE:1/16/2012
AFE#:
API#:4304739476
USER ID:RACHAPPE (Frac Invoices Only)

COMPLETIONS ENGINEER: Michael Sollee, Denver, CO
(720)-929-6057 (Office)
(832)-859-0515 (Cell)

SIGNATURE:

ENGINEERING MANAGER: JEFF DUFRESNE

SIGNATURE:

REMEMBER SAFETY FIRST!

Name: **NBU 1022-1301CS**
Location: **SW NE SW SE SEC 13 T10S R22E**
LAT: 39.946444 **LONG: -109.391514** **COORDINATE: NAD83 (Surface)**
Uintah County, UT
Date: **1/16/2012**

ELEVATIONS: 5293' GL 5310' KB *Frac Registry TVD: 8141*

TOTAL DEPTH: 8560' **PBTD:** 8459'
SURFACE CASING: 9 5/8", 36# J-55 LT&C @ 2137'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 8504'
 Marker Joint **4036-4058'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1045' Green River Top
 1302' Bird's Nest Top
 1674' Mahogany Top
 4139' Wasatch Top
 6513' Mesaverde Top

BOTTOMS:

6513' Wasatch Bottom
 8560' Mesaverde Bottom (TD)

T.O.C. @ 1635'

GENERAL:

- A minimum of **10** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Bakers Induction-Density-Neutron log dated 2/11/2008
- **3** fracturing stages required for coverage.
- Procedure calls for **4** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Pump scale inhibitor at 3 gpt (in pad and until 1.25 ppg ramp up is reached) and 10 gpt in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **6200** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.

- **Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.**
- **If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)**
- Tubing Currently Landed @~8025
- Originally completed on 5/5/2008

Existing Perforations:

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	MESAVERDE	8240	8243	3	9	8224	to	8226
	MESAVERDE		No Perfs			8239	to	8243
	MESAVERDE	8286	8288	4	8	8246	to	8248
	MESAVERDE	8363	8369	4	24	8285	to	8289
	MESAVERDE		No Perfs			8363	to	8371
2	MESAVERDE	8055	8062	4	28	8099	to	8101
	MESAVERDE	8100	8103	4	12			
3	MESAVERDE	7812	7822	4	40	7812	to	7821
	MESAVERDE		No Perfs			7899	to	7901
4	MESAVERDE		No Perfs			7533	to	7534
	MESAVERDE	7535	7537	3	6	7535	to	7537
5	MESAVERDE	7398	7402	2	8	7397	to	7408
	MESAVERDE		No Perfs			7410	to	7417
	MESAVERDE	7424	7426	3	6	7422	to	7427
	MESAVERDE	7446	7450	4	16	7442	to	7452
	MESAVERDE	7458	7461	4	12	7454	to	7463
6	MESAVERDE	7158	7161	2	6	7157	to	7164
	MESAVERDE		No Perfs			7170	to	7172
	MESAVERDE	7176	7179	3	9	7174	to	7186
	MESAVERDE		No Perfs			7192	to	7201
	MESAVERDE		No Perfs			7214	to	7216
7	MESAVERDE		No Perfs			7224	to	7226
	MESAVERDE		No Perfs			7011	to	7012
	MESAVERDE	7022	7029	3	21	7016	to	7025
	MESAVERDE		No Perfs			7027	to	7038
	MESAVERDE	7042	7049	3	21	7041	to	7059

Relevant History:

*Well has periodic SLICKLINE maintenance. From last SLICKLINE report: Seat Nipple Depth @~8013 and Fluid Level @~4200.

H2S History:

NBU 1022-1301CS

Date	H2S H2S_SEPARATO R_PPM
11/1/2008	50.00
12/1/2008	48.00
1/1/2009	88.00
2/1/2009	0.00
3/1/2009	60.00
4/1/2009	32.00
5/1/2009	29.00
6/1/2009	45.00
7/1/2009	10.00
8/1/2009	5.00
9/1/2009	40.00
10/1/2009	
11/1/2009	64.00
12/1/2009	0.00
1/1/2010	60.00
2/1/2010	94.00
3/1/2010	102.00
4/1/2010	85.00

PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. TOOH with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~8025'). Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 6494 (50' below proposed CBP). Otherwise P/U a mill and C/O to 6494 (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 6444'. ND BOPs and NU frac valves. Test frac valves and casing to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes. As per standard operating procedure install steel blowdown line to reserve pit from 4-1/2" X 9-5/8" annulus with pressure relief valve in line. Pressure relief will be set to release at 500 psig. Lock **OPEN** the Braden head valve. Annulus will be monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.

5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6324	6326	4	8
WASATCH	6331	6332	4	4
WASATCH	6402	6404	4	8
WASATCH	6413	6414	4	4
6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~6324' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
7. Set 8000 psi CBP at ~6,113'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	5787	5788	4	4
WASATCH	5815	5816	4	4
WASATCH	6004	6006	4	8
WASATCH	6081	6083	4	8
8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~5787' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
9. Set 8000 psi CBP at ~5,588'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5242	5244	3	6
WASATCH	5418	5420	3	6
WASATCH	5544	5546	3	6
WASATCH	5556	5558	3	6
10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~5242' flush only with recycled water.
11. Set 8000 psi CBP at~5192'.
12. TIH with 3 7/8" mill, pump open sub, XN nipple and tubing.
13. Mill 3 plugs and clean out to a depth of 6533'. THE WELL WILL BE COMMINGLED AT THIS TIME.
14. Land tubing at 6430, drop ball and pump open sub. Flow back completion load. RDMO.
15. MIRU, POOH tbg and mill. TIH with POBS and mill.
16. Mill last plug @ 6553' clean out to PBSD at 8459'. Land tubing at ±8025' pump off bit and bit sub . This well WILL be commingled at this time.
17. Clean out well with foam and/or swabbing unit until steady flow has been established from recomplete.
18. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

For design questions, please call
Michael Sollee, Denver, CO
(720)-929-6057 (Office)
(832)-859-0515 (Cell)

For field implementation questions, please call
Jeff Samuels, Vernal, UT
435-781 7046 (Office)

NOTES:

If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work

Verify that the Braden head valve is locked OPEN.

Name NBU 1022-1301CS
 Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes		Fracture Coverage		
		Top, ft	Bottom, ft						
1	WASATCH	6324	6326	4	8		6306	to	6328.5
	WASATCH	6331	6332	4	4		6329.5	to	6336
	WASATCH	6402	6404	4	8		6382.5	to	6417.5
	WASATCH	6413	6414	4	4				
	# of Perfs/stage				24		CBP DEPTH	6,113	
2	WASATCH	5787	5788	4	4		5786	to	5789.5
	WASATCH	5815	5816	4	4		5813.5	to	5818.5
	WASATCH	6004	6006	4	8		6001	to	6008
	WASATCH	6081	6083	4	8		6079	to	6086
	# of Perfs/stage				24		CBP DEPTH	5,588	
3	WASATCH	5242	5244	3	6		5241	to	5247
	WASATCH	5418	5420	3	6		5413.5	to	5420.5
	WASATCH	5544	5546	3	6		5543	to	5551.5
	WASATCH	5556	5558	3	6		5555	to	5559.5
	# of Perfs/stage				24		CBP DEPTH	5,192	
	Totals				72				

83.5612

Acid Pickling and H2S Procedures (If Required)

****PROCEDURE FOR PUMPING ACID DOWN TBG**

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBL 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBL 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

**** PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID**

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBL MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

Key Contact information

Completion Engineer

Michael Sollee: 832-859-0515, 720-929-6057

Production Engineer

Kyle Bohannon: 804-512-1985, 435-781-7068

Completion Supervisor Foreman

Jeff Samuels: 435-828-6515, 435-781-7046

Completion Manager

Jeff Dufresne: 720-929-6281, 303-241-8428

Vernal Main Office

435-789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

MD	TVD	INC		MD	TVD	INC
0	0	0		4660	4450.354	30.13
100	100	0.5		4712	4495.142	30.94
200	199.99	0.75		4784	4556.997	30.63
300	299.98	1		4846	4610.519	30
400	399.96	1.5		4908	4664.041	30.63
500	499.92	1.75		4970	4717.547	30.06
600	599.86	2		5032	4770.846	31.38
700	699.8	2		5093	4823.029	31
800	799.73	2.25		5156	4877.275	30.13
900	899.65	2.5		5218	4931.1	29.38
1000	999.55	2.5		5280	4985.094	29.5
1100	1099.46	2.5		5341	5038.136	29.69
1200	1199.36	2.5		5403	5092.074	29.4
1300	1299.3	1.75		5465	5145.827	30.38
1400	1399.27	0.5		5527	5199.485	29.75
1500	1499.27	0.5		5588	5252.722	28.69
1600	1599.27	0.25		5651	5308.41	27.06
1700	1699.26	1.25		5715	5365.7	25.88
1800	1799.24	1.25		5779	5423.448	25.19
1900	1899.21	1.5		5842	5480.541	24.83
2000	1999.16	2		5906	5539.015	23.13
2100	2099.143			5969	5597.204	21.94
2166	2165.124	2.38		6033	5656.75	21.06
2225	2224.07	2.5		6096	5715.688	20.31
2287	2286.005	2.81		6160	5775.9	19.31
2348	2346.889	4.31		6224	5836.436	18.56
2410	2408.593	6.81		6288	5897.196	18.06
2472	2470.048	8.38		6351	5957.145	17.75
2533	2530.218	10.5		6414	6017.187	17.5
2595	2591.065	11.63		6478	6078.257	17.31
2657	2651.637	13		6542	6139.429	16.88
2719	2711.866	14.44		6606	6200.773	16.25
2780	2770.849	15.13		6669	6261.407	15.25
2842	2830.639	15.56		6733	6323.234	14.69
2904	2890.19	16.75		6796	6384.312	13.69
2965	2948.406	18		6860	6446.639	12.56
3026	3006.231	19.13		6924	6509.268	11.19
3088	3064.572	20.44		6987	6571.194	10
3150	3122.574	20.94		7051	6634.281	9.38
3210	3178.253	22.8		7115	6697.581	7.56
3272	3235.449	22.63		7169	6751.16	6.75
3334	3292.821	21.94		7242	6823.73	5.69
3428	3379.859	22.44		7306	6887.473	4.56
3521	3464.892	25.31		7370	6951.312	3.56
3614	3548.676	26.19		7433	7014.213	2.88
3706	3630.439	28.38		7498	7079.124	3.13
3799	3710.23	33.39		7560	7141.018	3.56
3891	3788.743	29.44		7624	7204.912	3.13
3982	3867.476	30.75		7688	7268.837	2.44
4044	3920.534	31.56		7751	7331.801	1.44
4106	3973.575	30.81		7847	7427.775	1.25
4167	4026.102	30.31		7942	7522.747	1.5
4229	4079.676	30.13		8038	7618.718	1.31
4237	4086.571	30.82		8123	7703.695	1.38
4291	4133.187	29.81		8229	7809.664	1.38
4351	4185.084	30.44		8325	7905.64	1.19
4414	4238.993	31.88		8421	8001.616	1.38
4476	4291.82	31.25		8508	8088.594	1.25
4598	4396.731	30.13				

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
ST UO 08512 ST

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER _____
b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☒ OTHER **RECOMPLETION**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 1022-1301CS

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
4304739476

3. ADDRESS OF OPERATOR:
P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217

PHONE NUMBER:
(720) 929-6304

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: NESW 1745 FSL 1705 FWL S13,T10S,R22E

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,
MERIDIAN:
NESW 13 10S 22E

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH: SWSE 775 FSL 1920 FEL S13,T10S,R22E

12. COUNTY
UINTAH

13. STATE
UTAH

14. DATE SPURRED:
11/13/2007

15. DATE T.D. REACHED:
2/10/2008

16. DATE COMPLETED:
4/10/2012

ABANDONED ☐ READY TO PRODUCE ☒

17. ELEVATIONS (DF, RKB, RT, GL):
5293 GL

18. TOTAL DEPTH: MD 8,560
TVD 8,141

19. PLUG BACK T.D.: MD 8,519
TVD 8,100

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

CBL/CCL/GR

23.
WAS WELL CORED? NO ☒ YES ☐ (Submit analysis)
WAS DST RUN? NO ☒ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☒ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
12 1/4"	9 5/8" J-55	36#	0	2,160		650			
7 7/8"	4 1/2" I-80	11.6#	0	8,560		1,560			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,032							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	5,242	6,414			5,242 6,414	0.36		Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5242-6414	PUMP 4,199 BBLS SLICK H2O & 134,191 LBS 30/50 OTTAWA SAND
	3 STAGES

RECEIVED

JUN 26 2012

DIV. OF OIL, GAS & MINING

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: _____

30. WELL STATUS:

PROD

31. INITIAL PRODUCTION**INTERVAL A (As shown in Item #26)**

DATE FIRST PRODUCED: 4/10/2012		TEST DATE: 6/5/2012		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 846	WATER – BBL: 2	PROD. METHOD: FLOWING
CHOKE SIZE: 48/64	TBG. PRESS. 204	CSG. PRESS. 741	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 846	WATER – BBL: 2	INTERVAL STATUS: PROD

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,045
				BIRD'S NEST	1,302
				MAHOGANY	1,674
				WASATCH	4,139
				MESAVERDE	6,513

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the recompletion history and perforation report. Original perfs were in Mesaverde at 7022-8369'; new perfs are in Wasatch at 5242-6414'. Production test information is from commingled zones.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) **CARA MAHLER**TITLE **REGULATORY ANALYST**SIGNATURE DATE **6/19/2012**

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 1022-130-1CS BLUE	Wellbore No.	OH
Well Name	NBU 1022-130-1CS	Wellbore Name	NBU 1022-130-1CS
Report No.	1	Report Date	4/1/2012
Project	UTAH-UINTAH	Site	WHITE RIVER PAD
Rig Name/No.	ROCKY MOUNTAIN WELL SERVICE 3/3	Event	RECOMPL/RESERVEADD
Start Date	4/1/2012	End Date	4/9/2012
Spud Date	11/13/2007	Active Datum	RKB @5,310.00usft (above Mean Sea Level)
UWI	NBU 1022-130-1CS		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	5,242.0 (usft)-6,414.0 (usft)	Start Date/Time	4/2/2012 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	12	End Date/Time	4/2/2012 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	72	Net Perforation Interval	20.00 (usft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.60 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

1.5 Summary

2 Intervals

2.1 Perforated Interval

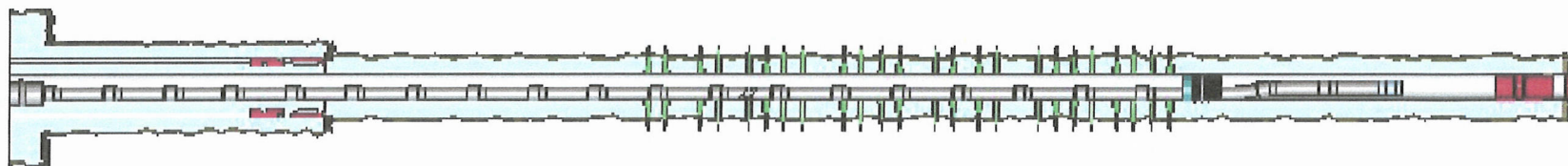
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/2/2012 12:00AM	WASATCH/			5,242.0	5,244.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/2/2012 12:00AM	WASATCH/			5,418.0	5,420.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	WASATCH/			5,544.0	5,546.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	WASATCH/			5,556.0	5,558.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	WASATCH/			5,787.0	5,788.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	WASATCH/			5,815.0	5,816.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	WASATCH/			6,004.0	6,006.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	WASATCH/			6,081.0	6,083.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	WASATCH/			6,324.0	6,326.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	WASATCH/			6,331.0	6,332.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	WASATCH/			6,402.0	6,404.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	WASATCH/			6,413.0	6,414.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-130-1CS BLUE

Spud Date: 11/13/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: RECOMPL/RESERVEADD

Start Date: 4/1/2012

End Date: 4/9/2012

Active Datum: RKB @5,310.00usft (above Mean Sea Level)

UWI: NBU 1022-130-1CS

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/23/2012	12:00 - 18:00	6.00	COMP	47	A	P		MIRU, 200 PSI TBG, CNTRL TBG W/ 20 BBLS N/D WH, N/U WH, UNLAND TBG, MIRU SCAN TECH, POOH SCAN TBG. SCAN 254 JTS 2 3/8" L-80 TBG. 0 RED, 254 YELLOW BAND. R/D SCAN TECH CSG OPEN TO SALES 6 PM SDFWE
3/28/2012	8:00 - 10:00	2.00	COMP	34	I	P		MIRU, JW WIRELINE P/U HALB 10K CBP, RIH SET @ 6444, POOH, R/D JW, MIRU B&C QUICK TEST, PSI TEST FV,CBP,CSG, 1000# 15 MIN 40 LOSS, 3500# 15 MIN 40 LOSS, 6200# 30 MIN 80 LOSS, RDMO B&C
3/30/2012	7:00 - 12:00	5.00	COMP	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWIFW
4/2/2012	7:00 - 7:15	0.25	COMP	48		P		HSM, GOING OVER FRAC

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-130-1CS BLUE

Spud Date: 11/13/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: RECOMPL/RESERVEADD

Start Date: 4/1/2012

End Date: 4/9/2012

Active Datum: RKB @5,310.00usft (above Mean Sea Level)

UWI: NBU 1022-130-1CS

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 14:00	6.75	COMP	36	B	P		<p>PERF & FRAC FOLLOWING WELL AS PER DESIGN W/ 30/50 MESH SAND & SLK WTR. ALL CBP'S ARE HALIBURTON 8K CBP'S. REFER TO STIM PJR FOR FLUID, SAND AND CHEMICAL VOLUME PUMP'D</p> <p>FRAC STG #1] WHP=32#, BRK DN PERFS=1,484#, @=3.6 BPM, INJ RT=51, INJ PSI=3,713#, INITIAL ISIP=330#, INITIAL FG=.49, FINAL ISIP=2,324#, FINAL FG=.80, AVERAGE RATE=50.8, AVERAGE PRESSURE=3,947#, MAX RATE=50.1, MAX PRESSURE=5,028#, NET PRESSURE INCREASE=1,954#, 19/24 77% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=6,113', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #2] WHP=1,092#, BRK DN PERFS=2,513#, @=4 BPM, INJ RT=50.9, INJ PSI=3,739#, INITIAL ISIP=1,412#, INITIAL FG=.68, FINAL ISIP=1,651#, FINAL FG=.72, AVERAGE RATE=51, AVERAGE PRESSURE=3,519#, MAX RATE=51.2, MAX PRESSURE=4,438#, NET PRESSURE INCREASE=239#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=5,588', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #3] WHP=152#, BRK DN PERFS=2,391#, @=4.2 BPM, INJ RT=51, INJ PSI=3,886#, INITIAL ISIP=1,169#, INITIAL FG=.66, FINAL ISIP=1,591#, FINAL FG=.73, AVERAGE RATE=51.1, AVERAGE PRESSURE=3,409#, MAX RATE=51.2, MAX PRESSURE=4,004#, NET PRESSURE INCREASE=422#, 21/24 87% CALC PERFS OPEN. X OVER TO WIRE LINE P/U RIH W/ HALIBURTON 8K CBP, SET FOR TOP KILL @=5,192'</p> <p>TOTAL FLUID PUMP'D=4,199 BBLS TOTAL SAND PUMP'D=134,191#</p>
4/5/2012	12:00 - 15:00	3.00	COMP	31	I	P		<p>MIRU, SPOT EQUIP, NDWH, NUBOP, P/U 3 7/8" BIT, PUMP OPEN BIT SUB, XN SN, & 59 JTS 2 3/8" L-80 TBG OFF FLOAT RIH TO 1851', SHUT DOWN DUE TO HIGH WINDS, SWMFWE, D/O PLUGS</p>
4/9/2012	7:00 - 7:15	0.25	COMP	48		P		<p>MONDAY HSM- JSA</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-130-1CS BLUE

Spud Date: 11/13/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: RECOMPL/RESERVEADD

Start Date: 4/1/2012

End Date: 4/9/2012

Active Datum: RKB @5,310.00usft (above Mean Sea Level)

UWI: NBU 1022-130-1CS

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	COMP	44	C	P		<p>CONT TO RIH W/ 2 3/8" L-80 TBG OFF FLOAT. TAG FILL @ 5177', RU PWR SWWL & BREAK CIRC. PRESS TEST BOP TO 3000 PSI, TEST GOOD.</p> <p>C/O 15' SAND, TAG 1ST PLUG @ 5,192' DRL PLUG IN 10 MIN. 300 PSI INCREASE, CSG PRESS 100 PSI, RIH TAG FILL @ 5,558'.</p> <p>C/O 30' SAND, TAG 2ND PLUG @ 5,588' DRL PLUG IN 10 MIN. 100 PSI LOSS, CSG PRESS 0 PSI. RIH TAG FILL @ 6,088', RU WEATHERFORD FOAM UNIT & BREAK CIRC.</p> <p>C/O 25' SAND, TAG 3RD PLUG @ 6,113' DRL PLUG IN 9 MIN. 100 PSI INCREASE, CSG PRESS 200 PSI. RIH & TAG FILL @ 6,414'.</p> <p>C/O 20' SAND TO 6,434', 10' ABOVE ISOL PLUG. CIRC CLEAN W/ FOAM UNIT, RD FOAM UNIT & POWER SWIVEL.</p> <p>POOH W/ 10 JTS & REMOVE STRING FLOAT, RIH W/ 5 JTS & LAND TBG @ 6296.54' W/ 200 JTS 2 3/8" L-80 TBG.</p> <p>R/D FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL, PMP OPEN BIT W/ 750 PSI.</p> <p>TURN OVER TO FLOW BACK CREW. TBG PRESS 0 PSI CSG PRESS 900 PSI.</p> <p>RDMO, MIRU ON NBU 1022-13K4S, SDFN.</p> <p>KB= 17' 4 1/16" WEATHERFORD HANGER= .83' 200 JTS 2 3/8" L-80 = 7,276.51' POBS= 2.20' EOT @ 6,296.54'</p> <p>TWTR= 4,362 BBLS TWR= 335 BBLS TWLTR= 4,027 BBLS</p> <p>SENT 54 JTS YELLOW BAND 2 3/8" L-80 TBG (1,717.20') TO SAMUELS YARD.</p> <p>WELL TURNED TO SALES AT 1155 HR ON 4/10/2012 - 600 MCFD, 480 BWPD, FCP 980#, FTP 162#, CK 24/64</p> <p>WELL IP'D ON 4/12/12 - 724 MCFD, 0 BOPD, 0 BWPD, CP 571#, FTP 115#, CK 48/64", LP 108#, 24 HRS</p>
4/10/2012	11:55 -		PROD	50				
4/12/2012	7:00 -			50				
4/13/2012	-							

US ROCKIES REGION
Operation Summary Report

Well: NBU 1022-13O-1CS BLUE

Spud Date: 11/13/2007

Project: UTAH-UINTAH

Site: WHITE RIVER PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE
3/3

Event: WELL WORK EXPENSE

Start Date: 4/20/2012

End Date: 5/30/2012

Active Datum: RKB @5,310.00usft (above Mean Sea Level)

UWI: NBU 1022-13O-1CS

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/25/2012	7:00 - 7:15	0.25	PROD	48		P		HSM-JSA
	7:15 - 15:00	7.75	PROD	31	I	P		RDMO, NBU 1022-13K3T, MIRU, CONTROL WELL W/ 30 BBLS TMAC, NDWH, NUBOP, SHUT DOWN DUE TO HIGH WINDS, SWIFWE
5/29/2012	7:00 - 7:15	0.25	PROD	48		P		HSM-JSA
	7:15 - 15:00	7.75	PROD	31	I	P		SITP 600 PSI, FTP 125 PSI, CONTROL WELL W/ 30 BBLS TMAC, POOH W/ 170 JTS PUMP 20 BBLS TMAC TO CONTROL WELL, POOH W/ 30 JTS, L/D PUMP OPEN BIT SUB, P/U 3 7/8" BIT, POBS, RERUN XN SN. RIH W/ 200 JTS, P/U 3 JTS OFF FLOAT TAG FILL @ 6,370', R /U PWR SWIVEL, SWMFN
5/30/2012	7:00 - 7:15	0.25	PROD	48		P		HSM-JSA
	7:15 - 17:00	9.75	PROD	44	C	P		R/U WEATHERFORD FOAM UNIT, TRY TO BRK CIRC, PRESS UP & STUCK TBG, WORK TBG FREE, BRK CIRC W/ FOAM UNIT, C/O 74' SAND TAG ISO PLUG @ 6,444'. DRL HAL 8K CBP IN 6 MIN, 400 PSI INC, FCP 200 PSI, CONT TO P/U TBG OFF FLOAT RIH TAG FILL @ 8,300', C/O 143' SAND TO 8,443', R/D PWR SWIVEL, POOH L/D 13 JTS ON FLOAT, LAND W/ 255 JTS 2 3/8" L-80 EOT@ 8032.20', R/D FLOOR & TBG EQUIP, NDBOP, NUWH, DROP BALL PUMP OFF BIT @ 1,600 PSI, R/D FOAM UNIT, SHUT IN WELL TO BUILD PRESS, TURN OVER TO PROD SICP 800 PSI, SITP 250 PSI, RDMO. MIRU ON NBU 1022-13M2CS, SDFN. KB-17' HANGER-.83' 255 JTS 2 3/8" L-80- 8,012.17' POBS-2.20' EOT @ 8,032.20' TWTR=160 BBLS TWR=176 BBLS TWLTR= 0 BBLS

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
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TYPE OF SUBMISSION <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/25/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="text-align: center; margin-top: 20px;"> THE NBU 1022-13O1CS WAS RETURNED TO PRODUCTION ON 11/25/2014. THANK YOU. </div> <div style="text-align: right; margin-top: 20px;"> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 08, 2014 </div>					
NAME (PLEASE PRINT) Kay E. Kelly	PHONE NUMBER 720 929 6582	TITLE Regulatory Analyst			
SIGNATURE N/A	DATE 12/8/2014				

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The NBU 1022-13O1CS well was returned to production on 5/5/2015. Thank you.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 13, 2015		
NAME (PLEASE PRINT) Jennifer Thomas		PHONE NUMBER 720 929-6808
SIGNATURE N/A		TITLE Regulatory Specialist
DATE 5/8/2015		

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PHONE NUMBER: 720 929-6454		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
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<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/2/2016	<input type="checkbox"/> SPUD REPORT Date of Spud:	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The NBU 1022-13O1CS well was returned to production on 09/2/2016. Thank you.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 07, 2016		
NAME (PLEASE PRINT) Candice Barber	PHONE NUMBER 435 781-9749	TITLE HSE Representative
SIGNATURE N/A	DATE 9/6/2016	

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COUNTY: UINTAH		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/31/2016	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER
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<input type="checkbox"/> DRILLING REPORT Report Date:	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, LP respectfully requests to plug and abandon the NBU 1022-13O1CS well. Please see the attached procedure for details. Thank you

**Approved by the
Utah Division of
Oil, Gas and Mining**

Date: December 15, 2016

By: 

Please Review Attached Conditions of Approval

NAME (PLEASE PRINT) Candice Barber	PHONE NUMBER 435 781-9749	TITLE HSE Representative
SIGNATURE N/A		DATE 10/31/2016



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047394760000

- 1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.**
- 2. Amend Plug #1: A minimum of 8 sx shall be spotted on the CIBP @ 6536'.**
- 3. All balanced plugs shall be tagged to ensure that they are at the depth specified.**
- 4. All annuli shall be cemented from a minimum depth of 100' to the surface.**
- 5. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.**
- 6. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.**
- 7. If there are any changes to the procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.**
- 8. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.**

12/15/2016

Wellbore Diagram

r263

API Well No: 43-047-39476-00-00

Permit No:

Well Name/No: NBU 1022-1301CS

Company Name: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Location: Sec: 13 T: 10S R: 22E Spot: NESW

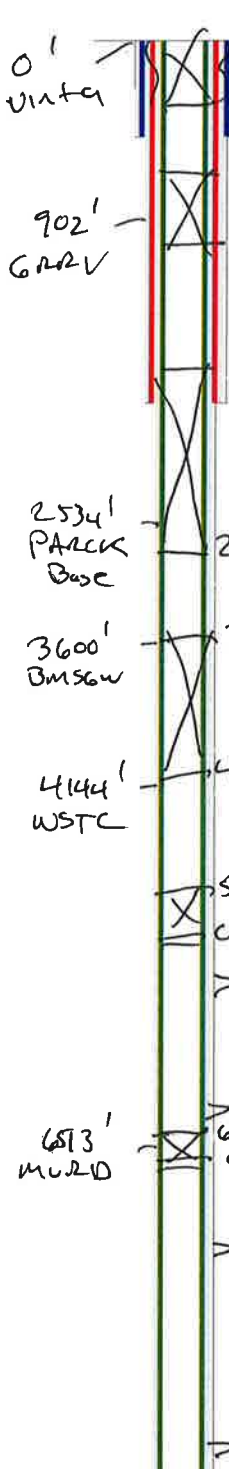
Coordinates: X: 637400 Y: 4423050

Field Name: NATURAL BUTTES

County Name: UTAH

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacity (f/cf)
HOL1	40	20			
COND	40	14	36.7	40	
HOL2	2160	12.25			
SURF	2160	9.625	36	2160	
HOL3	8560	7.875			
PROD	8560	4.5	11.6	8560	11.459

 $9\frac{5}{8}" \times 4\frac{1}{2}" \rightarrow 3.090$


Cement from 40 ft.

Conductor: 14 in. @ 40 ft.

Hole: 20 in. @ 40 ft.

Cement from 2160 ft. to surface

Surface: 9.625 in. @ 2160 ft.

Hole: 12.25 in. @ 2160 ft.

Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
COND	40		UK	28
PROD	8560	0	HS	310
PROD	8560	0	50	1250
SURF	2160	0	HG	200
SURF	2160	0	G	450

Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
7022	8369			
5242	6414			

Formation Information

Formation	Depth
UNTA	0
GRRV	902
PARCK	2534
BMSW	3600
WSTC	4144
MVRD	6513

TD: 8560 TVD: 8141 PBD: 8519

NBU 1022-1301CS
 1747' FSL & 1705' FWL
 NESW SEC. 13, T10S, R22E
 UINTAH UT

KBE: 5310'
 GLE: 5292'
 TD: 8560'
 PBSD: 8519'

API NUMBER: 4304739476
 LEASE NUMBER: STUO-08512-ST
 LAT/LONG: 39.946444/-109.391514

CASING : 12.25" hole
 SURFACE 9.625" 36# J-55 @ 2119'

PRODUCTION 7.875" hole
 4.5" 11.6# N-80 @ 8547'
 Est. TOC @ 135' CBL

PERFORATIONS: WASATCH-MESAVERDE TOP-BOTTOM 5242'-8369'

TUBING: 2.375" 4.7# L80 TBG at 8015'

Tubular/Borehole	ID	Drift inches	Collapse psi	Burst psi	Capacities		
	inches				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg	1.995	1.901	8100	7700	0.1624	0.02171	0.00387
2.375" 4.7# P-110 tbg	1.995	1.901	13800	15400	0.1624	0.02171	0.00387
2.375" 4.7# L-80 tbg	1.995	1.901	11780	11200	0.1624	0.02171	0.00387
4.5" 11.6# N-80 csg	4	3.875	6350	7780	0.65282	0.08727	0.01554
9.625" 36# J-55 csg	8.921	8.765	2020	3520	3.24699	0.43406	0.07731

Annular Capacities	Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" tbg. X 4.5" csg	0.42272	0.05651	0.01006
4.5" csg. X 9.625" csg	2.42077	0.32361	0.05764
4.5" csg X 7.875 borehole	1.70406	0.2278	0.04057

GEOLOGIC INFORMATION:

Formation	Depth to top, ft.
Top Green River	902'
Top Mahogany	1730'
Base Parachute	2534'
Top Wasatch	4139'
Top Mesaverde	6536'

<http://digitallibrary.utah.gov/awweb/awarchive?type=file&item=55737>

BMSW Elevation ~1710' MSL
 BMSW Depth ~3600'

NBU 1022-1301CS PLUG & ABANDONMENT PROCEDURE

GENERAL

- H2S MAY BE PRESENT. CHECK FOR H2S AND TAKE APPROPRIATE PRECAUTIONS.
- BLOW DOWN BRADEN HEAD AND SURFACE CASING AS NEEDED AS PER SOP.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, 15.8ppg, YIELD 1.145 CUFT/SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLS FLUID AND IS TO BE PLACED BETWEEN ALL PLUGS.
- NOTIFY APPROPRIATE AGENCY 48 HOURS BEFORE MOVING ON LOCATION.

PERTINENT WELL HISTORY: SN @ 8032' (recompleted in May 2012)

PROCEDURE

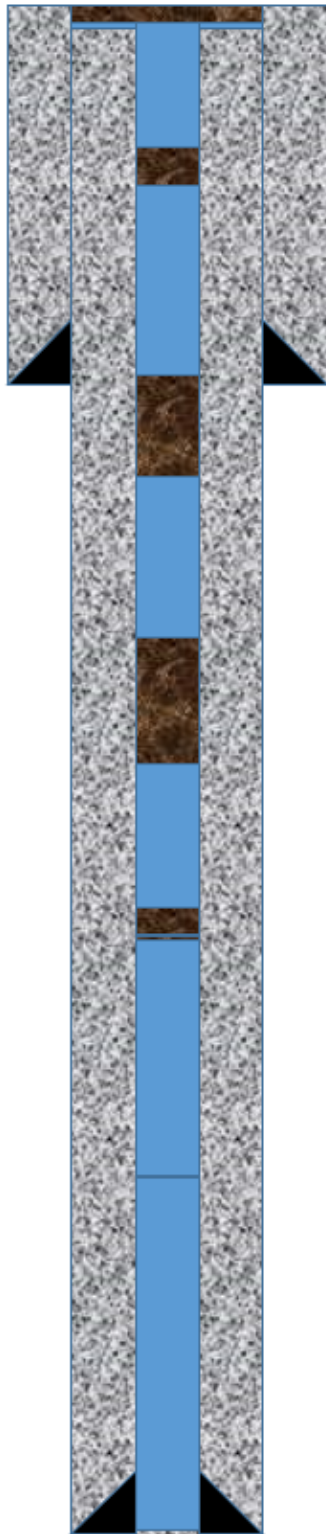
Note: Approx. **150 SXS** Class "G" cement needed for procedure & **(2) 4.5" CIBP**

Note: GYRO ON RECORD. (A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE).

1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
2. POOH W/ TBG & L/D SAME. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL PER FOREMAN DISCRETION.
3. ISOLATE MESAVERDE PERFORATIONS (> 6536'): RIH ON WIRELINE W/ 4.5" CIBP. SET @ ~6536'. RELEASE CIBP.
4. ISOLATE PERFORATIONS (8369'-5242'): RIH ON WIRELINE OR TUBING W/ 4.5" CIBP. SET @ ~5192', (50' above top perf at 5242'). RELEASE CIBP, PUH 10', CIRC ENTIRE HOLE W/ TREATED FRESH WATER AND PRESSURE TEST CASING. SET A 105FT BALANCED CMT PLUG F/ 5192' to 5087'(8 SXS, 9.16 FT3, 1.64 BBLS).
5. PROTECT WASATCH TOP (4139') & BMSW (3650'): PUH WITH TUBING AND PUMP A MINIMUM OF (590FT) CMT F/ 4139' to 3549' (45 SXS, 51.53 FT3, 9.17 BBLS).
6. PROTECT PARACHUTE BASE (2534') & SURFACE CASING SHOE (2119'): PUH WITH TUBING AND PUMP A MINIMUM OF (577FT) CMT F/ 2640' to 2063' (44 SXS, 50.38 FT3, 8.97 BBLS).
7. PROTECT GREEN RIVER (902'): PUH WITH TUBING AND PUMP A MINIMUM OF (210FT) CMT F/ 1007' to 797' (16 SXS, 18.32 FT3, 3.27 BBLS).
8. PROTECT SURFACE (101'): PUH WITH TUBING AND PUMP A MINIMUM OF (105 FT) CMT F/ 105'-0' (8 SXS, 9.16 FT3, 1.64 BBLS). POOH AND RUN 1 INCH TUBING DOWN THE PRODUCTION/SURFACE CASING ANNULUS TO AS DEEP AS POSSIBLE AND CEMENT TO SURFACE (29 SXS, 33.21 FT3, 5.92 BBLS).
9. CUT OFF WELLHEAD AND INSTALL MARKER PER REGULATIONS.
10. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB. SURFACE RECLAMATION TO BE PERFORMED IN ACCORDANCE TO REGULATIONS.

NBU 1022-1301CS

Total SXS: 150, Total CIBP: 2



<- Plug for Surface from 0' to 103' with 37SXS,103ft.

<- TOC at 135'

<- Plug for GreenRiver at 902' from 1007' to 797' with 16SXS,210ft.

<- Mahogany at 1730'

<- Surface Shoe at 2119'

<- Plug for Parachute Base & Surface Shoe from 2640' to 2063' with 44SXS,577ft.

<- Parachute Base at 2534'

<- BMSW at 3650'

<- Plug for Wasatch & BMSW from 4139' to 3550' with 45SXS,590ft.

<- Wasatch at 4139'

<- Plug above CIBP at 5192' from 5192' to 5087' with 8SXS,105ft.

<-CIBP Above Perfs at 5192'

<-Top Perf at 5242'

<-CIBP for Mesaverde at 6536'

<-PBTD at 8519'

<- Production Casing Shoe at 8547'

<-TD at 8560'